

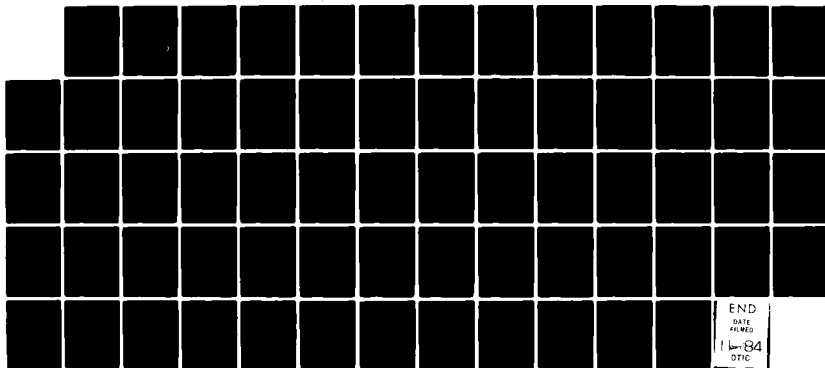
AD-A146 994

ADE ADA COMPILER VERSION 5234 ECLIPSE MV/10000 MV/4000 1/1  
MV/6000 MV/8000C M..(U) FEDERAL SOFTWARE TESTING CENTER  
FALLS CHURCH VA 18 MAY 84 V-008

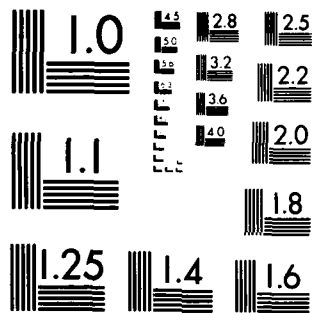
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REPORT 1

AD-A146 994

READ INSTRUCTIONS  
BEFORE COMPLETING FORM  
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V-008

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Ada Validation Summary Report  
Data General Corporation/Rolm Corporation  
ADE Ada Compiler Version 5.234  
Eclipse MV 100000, 4000, 6000, 8000, 8000II

5. TYPE OF REPORT & PERIOD COVERED  
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Rolm MSE/800  
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Summary Report, ADE Ada Compiler 5.234

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The purpose of this report is to document the results of the tests performed  
on the Data General Corp. Compiler ADE Ada, version 5.234, for the Eclipse  
MV/10000, MV 4000, MV5000, MV8000, MV8000II and Rolm MSE 800, using AOS/VS 3.12.

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Data General Corporation and Rolm Corporation

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May 18, 1984

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A-1	

#### ADA VALIDATION SUMMARY REPORT

Data General Corporation  
Rolm Corporation  
ADE Ada Compiler  
Version 5.234  
Eclipse MV/10000, MV/4000,  
MV/6000, MV/8000C, MV/8000II,  
Rolm MSE/800  
using AOS/VS 3.12

Report V-008

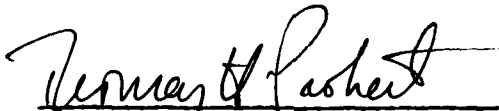


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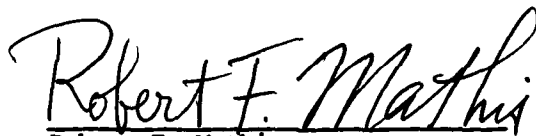
This report has been reviewed and is approved.

 6/5/84

George N. Baird, Director  
Federal Software Testing Center



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Institute for Defense Analysis



Robert F. Mathis  
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#### ABSTRACT

The Data General Corporation Compiler ADE Ada, version 5.234, for the Eclipse MV/10000, MV/4000, MV/6000, MV/8000C, MV8000II, and Rolm MSE/800, using AOS/VS 3.12, was tested with version 1.3 of the ACVC validation tests. Version 1.3 of the test suite contained 1714 tests, of which 1652 were applicable to this implementation. Of the applicable tests, 61 were withdrawn due to errors in the tests. Of the remaining applicable correct tests 1652 passed, and one anomaly was discovered.



## 1. Introduction

### 1.1 Purpose of the Validation Summary Report

This report describes the results of the validation effort for the following Ada compiler:

Host Machine: Eclipse MV/10000, MV/4000, MV/6000,  
MV/8000C, MV/8000II, Rolm MSE/800

Operating System: AOS/VS 3.12

Host Disk System: Ada

Target Machine: Eclipse MV/10000, MV/4000, MV/6000,  
MV/8000C, MV/8000II, Rolm MSE/800

Operating System: AOS/VS 3.12

Language Version: ANSI/MIL-STD-1815A Ada

Translator Name: ADE Ada

Translator Version: 5.234

Validator Version: 1.3

Testing of this compiler was conducted by the Federal Software Testing Center under the supervision of the Ada Validation Office (AVO), at the direction of the Ada Joint Program Office. Testing was conducted from April 16, 1984, through April 20, 1984, at Data General Corporation, Westboro, MA, and Rolm Corporation, Santa Clara, CA, in accordance with AVO policies and procedures.

The purpose of this report is to document the results of the testing performed on the <sup>Ada</sup> compiler, and in particular, to:

- 1) identify any language constructs supported by the compiler that do not conform to the Ada standard.
- 2) identify any unsupported language constructs required by the Ada standard, and
- 3) describe implementation-dependent behavior allowed by the standard.

## 1.2 Use of the Validation Summary Report

The Ada Validation Office may make full and free public disclosure of this report in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of the validation are only for the purpose of satisfying United States Government requirements, and apply only to the computers, operating systems, and compiler version identified in this report.

The Ada Compiler Validation Capability is used to determine insofar as is practical, the degree to which the subject compiler conforms to the Ada standard. Thus, this report is necessarily discretionary and judgemental. The United States Government does not represent or warrant that the statements, or any one of them, set forth in this report are accurate or complete, nor that the subject compiler has no other nonconformances to the Ada standard. This report is not meant to be used for the purpose of publicizing the findings summarized therein.

Question regarding this report or the validation tests should be sent to the Ada Validation Office at:

Ada Joint Program Office  
Room 3D 139 (400 Army Navy Drive)  
Pentagon  
Washington, D.C. 20301

## 1.3 References

Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, February 1983.

Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601.

Ada Compiler Validation Implementers' Guide, SofTech, Inc., October 1980.

The Ada Compiler Validation Capability, Computer, Vol. 14, No. 6, June 1981.

Using the ACVC Tests, SofTech, Inc. November 1981.

Ada Compiler Validation Plans and Procedures, SofTech, Inc. November 1981.

#### 1.4

#### Definitions of Terms

Class A tests are passed if no errors are detected at compile time. Although these tests are constructed to be executable, no checks can be performed at run-time to see if the test objective has been met; this distinguished Class A from Class C tests. For example, a Class A test might check that keywords of other languages (other than those already reserved in Ada) are not treated as reserved words by an Ada implementation.

Class B tests are illegal programs. They are passed if all the errors they contain are detected at compile-time (or link-time) and no legal statements are considered illegal by the compiler.

Class L tests consist of illegal programs whose errors cannot be detected until link time. They are passed if errors are detected prior to beginning execution of the main program.

Class C tests consist of executable self-checking programs. They are passed if they complete execution and do not report failure.

Class D tests are capacity tests. Since there are no firm criteria for the number of identifiers permitted in a compilation, number of units in a library, etc., a compiler may refuse to compile a class D test. However, if such a test is successfully compiled, it should execute without reporting a failure.

Class E tests provide information about an implementation's interpretation of the Standard. Each test has its own pass/fail criterion. There were 5 class E tests in Version 1.3 of the test suite.

**CUSTOMER:** The agency requesting the validation (Data General Corporation).

**HOST:** The computer on which the compiler executes (Eclipse MV/10000, MV/4000, MV/6000, MV/8000C, MV/8000II, Rolm MSE/800).

**FSTC:** Federal Software Testing Center. In the context of this report the FSTC conducts Ada validations under contract to the AVO as a satellite facility.

**ACVC:** Acronym for the Ada Compiler Validation Capability.

**RM:** The Ada Language Reference Manual.

**IG:** ACVC Implementers' Guide.

**AVO:** The Ada Validation Office. In the context of this report the AVO is responsible for directing compiler validation.

**TARGET:** The computer for which the compiler generates object code (Eclipse MV/10000, MV/4000, MV/6000, MV/8000C, MV/8000II, Rolm MSE/800).

**VALIDATION:** The process of validating a compiler. The term is used interchangeably with test or compiler test.

**VALIDATION TESTS:** The generic form used to refer to a set of test programs which evaluate how closely a compiler conforms to its language specification. In this report, the term will be used (unqualified) to mean the ACVC tests.

## 2. TEST ANALYSIS

A summary of tests processed, by class, is given in Exhibit 1, where:

- Pr = processed.
- NA = found to be inapplicable for this implementation.
- Er = found to be incorrect, and withdrawn from the validation.
- P = passed.
- A = anomalies.
- F = failed.
- FE = failed to execute to completion.
- FC = failed to compile successfully.
- Fs = total of all failures (i.e.,  $F+FE+FC$ ).

Exhibit 1 shows that the Data General Corporation compiler passed all applicable correct tests.

There were 32 tests in the suite that were processed and found to be not applicable to the Data General Corporation compiler (see section 4.2.7)

In addition, 61 tests were withdrawn from the test suite because they did not conform to the ANSI/MIL-STD-1815A Standard for the Ada Language (see Section 4.2.6 for details.).

Test Class	Pr	NA	Er	P	A	F	FE	FC	Fs
A	55	2	2	51	0	0	0	0	0
B	698	8	8	684	0	0	0	0	0
C	882	17	30	835	0	0	0	0	0
D	14	3	0	11	0	0	0	0	0
E	5	0	0	4	1	0	0	0	0
L	60	2	21	47	0	0	0	0	0
Total	1714	32	61	1652	1	0	0	0	0

**EXHIBIT 1: Summary of Test Performance**

## 2.1 Class A Testing

Class A tests check that legal Ada programs can be successfully compiled. These tests are executed but contain no executable self-checking capabilities. There were 55 class A test programs processed in this validation.

### 2.1.1 Class A Test Procedures

Each class A test was separately compiled and executed. However, the only purpose of execution is to produce a message indicating that the test passed.

### 2.1.2 Class A Test Results

Successful compilation and execution without any error messages indicates the tests passed. All 51 tests passed.

## 2.2 Class B Testing

Class B tests check the ability to recognize illegal language usage. There were 698 class B tests processed.

### 2.2.1 Class B Test Procedures

Each class B test was separately compiled. The resulting test compilation listings are manually examined to see whether every illegal construct in the test is detected. If all errors are not detected, a version of the test is created that contains only undetected illegal constructs. This revised version is recompiled and the results analyzed. If all errors are still not detected, the revision process is repeated until a revised test contains only a single illegal construct.

A B test is considered to fail only if a version of the test containing a single illegal construct is accepted by the compiler (i.e., an illegal construct is not detected) or a version containing no errors is rejected (i.e., a legal construct is rejected).

### 2.2.2 Class B Test Results

There were 698 class B tests presented to the compiler. Of these tests 8 were found to be inapplicable to this implementation (see Section 4.2.7); 8 tests were found to be incorrect (i.e., a conforming compiler would have failed each of these tests). All 8 remaining class B tests passed. There were 3884 constructs in the tests; all were correctly detected by the compiler, and no legal construct was rejected.

Because all errors were not detected when compiling the original tests, the following 33 tests were modified by removing the detected errors; the modified tests were then resubmitted to see if the remaining errors would be detected:

B22003A.ADA	B24005A.ADA	B41202A-B.ADA	B64004A.ADA
B22004A.ADA	B24005B.ADA	B44001A-B.ADA	B67001A-B.ADA
B22004B.ADA	B29001A-B.ADA	B45205A-AB.ADA	B73001D-AB.ADA
B22004C.ADA	B35101A.ADA	B51003A-AB.ADA	B74104A-B.ADA
B23004A.ADA	B37301A.ADA	B52003A-AB.ADA	B97101A-AB.ADA
B23004B.ADA	B37301B.ADA	B52006A-AB.ADA	B97101E-AB.ADA
B24001A.ADA	B37307B-AB.ADA	B53009A-AB.ADA	B97102A-AB.ADA
B24001B.ADA	B38001A.ADA	B55A01A-AB.ADA	B97103E-AB.ADA
B24001C.ADA			

All illegal constructs were eventually detected except in some tests that were withdrawn because of errors in the tests (see Section 4.2.8).

### 2.3 Class C Testing

Class C tests check that legal Ada programs are correctly compiled and executed by an implementation. There were 882 class C tests processed in this validation attempt.

#### 2.3.1 Class C Test Procedures

Each Class C test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages. Any 'failed' tests are individually checked to see if they are correct and if they are applicable to the implementation. Any tests that are inapplicable or that do not conform to the Ada Standard are withdrawn.

#### 2.3.2 Class C Test Results

All class C tests were processed except those tests requiring a floating point precision exceeding SYSTEM.MAX\_DIGITS (277).



## 2.4 Class D Testing

Class D tests are executable tests used to check an implementation's compilation and execution capacities. There were 14 class D tests used in this validation.

### 2.4.1 Class D Test Procedures

Each class D test is separately compiled and executed. The tests are self-checking and produce PASS/FAIL messages.

### 2.4.2 Class D Test Results

Of the 14 class D tests, 11 passed and 3 were found to be inapplicable to this implementation. Of these 0 were withdrawn because of errors in the tests. See section 4.2.7 for further information.

## 2.5 Class E Testing

Class E tests are executable tests that provide information about an implementation's interpretation of the Standard in areas where the Standard permits implementations to differ. Each test has its own pass/fail criterion. There were 5 class E tests used in this validation.

### 2.5.1 Class E Test Results

One class E test result was considered anomalous. The other 4 class E tests passed. See section 4.2.9 for further information.

## 2.6 Class L Testing

Class L tests check that incomplete or illegal Ada programs involving multiple separately compiled source files are detected at link time and are not allowed to execute. There were 60 test programs processed in this validation attempt.

### 2.6.1 Class L Test Procedures

Each Class L test is separately compiled and execution is attempted. The tests produce FAIL messages if executed. Any "failed" tests are individually checked to see if they are correct and if they are applicable to the implementation. Any tests that are inapplicable or that do not conform to the Ada standard are withdrawn.

#### 2.6.2 Class L Test Results

Of the 60 class L tests, 2 were found to be inapplicable to this implementation (see section 4.2.7), and 21 were withdrawn due to errors in the tests (see section 4.2.6). The remaining 47 test passed.

### 3. COMPILER NONCONFORMANCES

One test result was considered anomalous but was not considered to be a failure. There were no other indications of nonconformance. (Section 4.2.9 describes the anomalous test results.)

#### 4. ADDITIONAL INFORMATION

This section describes in more detail how the validation was conducted.

##### 4.1 Compiler Parameters

Certain tests do not apply to all Ada compilers, e.g., compilers are not required to support several predefined floating point types, and so tests must be selected based on the predefined types an implementation actually supports. In addition, some tests are parameterized according to the maximum length allowed by an implementation for an identifier (or other lexical element; this is also the maximum line length), the maximum floating point precision supported, etc. The implementation dependent parameters used in performing this validation were:

- . maximum lexical element length: 200 characters.
- . maximum digits value for floating point types: 6
- . SYSTEM.MIN\_INT:  $-2147483646 - ((2^{*}30) - 2 + (2^{*}30))$
- . SYSTEM.MAX\_INT:  $2147483646 (2^{*}30) - 2 + (2^{*}30)$
- . predefined numeric types: INTEGER, FLOAT.
- . INTEGER'FIRST: -2147483646
- . INTEGER'LAST: 2147483646
- . source character set: ASCII
- . extended ascii chars: "abcdefghijklmnopqrstuvwxyz  
!\$%&[\]^\_{}`~"
- . non-ascii char type: (NON\_NULL)
- . TEXT\_IO.COUNT'LAST: 2147483646
- . TEXT\_IO.FIELD'LAST: 2147483646
- . illegal external file name: "bad-character\*"

- . illegal external file name2: "much\_much\_too\_long\_name\_for\_a\_file"
- . SYSTEM.PRIORITY'FIRST: 1
- . SYSTEM.PRIORITY'LAST: 1

## 4.2 Testing Information

Tests were compiled/executed at Data General Corporation, Westboro, MA, and at Rolm Corporation, Santa Clara, CA.

### 4.2.1 Pre-Test Procedures

Prior to testing, appropriate values for the compiler-dependent parameters were determined. These values were used to adapt tests that depend on the values. A magnetic tape containing the adapted tests [and split versions of some class B tests (see section 2.2.2)] was prepared and brought to the testing site.

### 4.2.2 Control Files

Data General Corporation and Rolm Corporation provided command procedures that compiled and executed tests automatically.

### 4.2.3 Test Procedures

All files from the version 1.3 tape were read onto disk. The package REPORT and the procedure CHECK-FILE were first compiled and the corresponding library file saved. The tests checking the REPORT package and CHECK-FILE procedure were executed on the MV/10000. Then all tests were grouped into batch jobs by class and by chapter and run on the MV/10000. In addition the REPORT package, CHECK-FILE procedure and all executable programs were run on the MV/4000, MV/6000, MV/8000C, MV/8000II and Rolm MSE/800.

### 4.2.4 Test Analysis Procedures

On completion of testing, all results were analyzed for failed class A, C, D, E, or L programs, and all class B compilation results were individually analyzed. Analysis procedures are described for each test class in chapter 2.

Tests found to contain errors were withdrawn.

#### 4.2.5 Performance Information

The real (i.e., wall clock) time required for running all the tests on the Eclipse MV/10000 was approximately 54 hours.

#### 4.2.6 Description of Errors in Withdrawn Tests

The following tests in version 1.3 of the ACVC did not conform to the ANSI Ada standard and were withdrawn for the reasons given below:

'VALUE is only defined for discrete types:  
C34001F-B.

A statement sequence is required in a subprogram body: B34008A-B.

When the catenation operator has a null left operand, the lower bound of the result is determined by the lower bound of the right operand: C36174A.

The result of a multiplication was incorrect:  
C45521C-B, C45521F-B, C45521I-B, C45521L-B,  
C45521O-B, C45521R-B, C45521U-B, C45521X-B.

A test assumed that when a constrained array type was declared using a range, e.g., 1..10, that the index subtype was INTEGER instead of INTEGER range 1..10: C52102B-AB.

A test assumed that loop identifiers need only be unique within blocks, rather than within bodies: B55A01A-AB.

An expression of a universal integer type cannot contain an operator in the discrete range of a loop parameter specification if both bounds are of type universal integer: B55B09C-AB, B55B09D-AB.

Instantiation of a generic subprogram before its body is elaborated raises PROGRAM\_ERROR: C58004D-AB.

Parameter mode {out} is illegal for a limited type outside its defining package: C61010A-AB.

A private type must have a full declaration: B74205A-B.

Aggregates are available for an array of private type: B74205A-B.

A test assumed that INTEGER'SIZE would always be equal to BOOLEAN'SIZE: C74206A-B.

Identifiers for the floating-point machine-dependent attributes should begin with "MACHINE\_": B74207A-B.

The main procedure name should correspond to the source file name. (This is not an Ada language requirement, but is an ACVC convention): B83A05A-AB.

The identifier at the {end} of a loop or block must be a loop\_ or block identifier, and not a label\_identifier: A83A06A-B.

A label, block, or loop name must be distinct throughout a program unit (excluding inner units): B83A06B-B.

Because no pragma ELABORATE was provided, a library subprogram could be invoked before its body was elaborated: C86001E-B, LA3004A4-AB, LA3004B4-B, LA5001A3-B, LA5001A4-B, LA5001A5-B, CA5002A-B, CA5002B4-B, CA5002B5-B.ADA.

An overloaded function call was ambiguous: C87B04A-B.

The name of an access type cannot be used in its own declaration, even when the access type is an incomplete type: C87B28A-B, C87B39A-B.

An array aggregate with named associations and an {others} choice must be qualified in an assignment context: C87B31A-B.

A universal integer expression as the argument of T'VAL is not implicitly converted to type T: C87B32A-B.

The type of an operand can resolve which overloaded operator is used: C87B32A-B.

An aborted task does not immediately become terminated, as the test assumes; instead, it becomes not 'CALLABLE: C9A005A-B, C9A007A-B.

A function was compiled with a context clause that referenced a package. After the package was recompiled, an attempt was made to recompile the function body without first recompiling a function specification referencing the recompiled package: CA3006C4-B.

A test assumed that record types with discriminants with defaults could be matching actual parameters for constrained generic formal type parameters: AE2101A-B, CE2401C-B.

#### 4.2.7 Description of Inapplicable Tests

There were 277 tests that were not processed because SYSTEM.MAX\_DIGITS was 6. These tests were:

C24113C,D,...,Y-B	C35708C,D,...,Y-B	C45421C,D,...,Y
C35705C,D,...,Y-B	C35802C,D,...,Y-B	C45424C,D,...,Y-B
C35706C,D,...,Y-B	C45241C,D,...,Y-B	C45521C,D,...,Y-B
C35707C,D,...,Y-B	C45321C,D,...,Y-B	C45621C,D,...,Z-B

Because the implementation did not support LONG\_INTEGER, SHORT\_FLOAT, LONG\_FLOAT, LONG\_LONG\_INTEGER, 19 tests were inapplicable:

LONG_INTEGER	C34001E,F,G-B, B52004D, C55B07A-AB, B55B09C-AB, B86001CS-AB
SHORT_FLOAT	C34001F-B, C35702A-AB, B86001CP-AB
LONG_FLOAT	C34001G-B, C35702B-AB, B86001CQ-AB
LONG_LONG_INTEGER	B86001DT-AB

C55B16A-AB was inapplicable because it required support for explicitly specifying the representation of an enumeration type.

LA2004A\*-AB and LA3004B\*-B were inapplicable because they required support for the INLINE pragma.

AE2101C-B, CE2201D-B, CE2201E-B, and CE2401D-B were inapplicable because the implementation's version of SEQUENTIAL\_IO, DIRECT\_IO, and TEXT\_IO did not allow for instantiation with unconstrained array and record types.



CE2102D-B, CE2102E-B, CE2102F-B, and CE2102G-B were inapplicable because the implementation does not support modes IN\_FILE, OUT\_FILE, and INOUT\_FILE, and also the procedures RESET and DELETE.

B86001DOM and B86001DT were inapplicable because the implementation does not support additional predefined data types.

CE3111B-B DEP was inapplicable because the implementation's I/O is buffered by the operating system which does not permit opening the same physical file as two logical files.

Results for inapplicable class D and E tests are given in Section 4.2.8.

#### 4.2.8 Information derived from the Tests

Processing of the following tests indicated support as described below for a variety of implementation options examined by the tests.

- . E24101A-B.TST: If a based integer literal has a value exceeding SYSTEM.MAX\_INT, an implementation may either reject the compilation unit at compile time or raise NUMERIC\_ERROR at run-time. Raising NUMERIC\_ERROR at run-time is preferred, since it makes programs compilable for a wider variety of implementations (and the numeric literal might occur in an unexecutable portion of code). This test showed that ADE Ada rejected the program with a compile error for a compilation unit containing an integer literal exceeding SYSTEM.MAX\_INT then added it to the library for execution. The execution failed.
- . B26005A.ADA: This test contains all the ASCII control characters in string literals. ADE Ada rejected all of these strings.
- . D29002K-B.ADA: This test declares 1000 identifiers and was passed by ADE Ada.

- . D4A002A-AB.ADA, D4A002B.ADA, D4A004A-AB.ADA, and D4A004B.ADA: These tests contain universal integer calculations requiring 32 and 64 bits of accuracy, i.e., values that exceed SYSTEM.MAX INT are used. An implementation is allowed to reject programs requiring such calculations. ADE Ada passed D4A002A-AB and rejected the others at compile time.
- . C52103X-B.ADA, E52103Y-B.ADA, C52104X-B.ADA, C52104Y-B.ADA: These tests declare BOOLEAN arrays with INTEGER'LAST+3 components. An implementation may raise NUMERIC\_ERROR at the type declaration or STORAGE\_ERROR when array objects of these types are declared, or it may accept the type and object declarations. ADE Ada raised STORAGE-ERROR.
- . A series of tests (D55A03\*-AB.ADA) check to see what level of loop nesting is allowed by an implementation. Tests containing 65 or fewer nested loops passed.
- . D56001B-AB.ADA contains blocks nested 65 levels deep. This test was passed.
- . C94004A-B.ADA: This test checks to see what happens when a library unit initiates a task and a main program terminates without insuring that the library unit's task is terminated. An implementation is allowed to terminate the library unit task, or it is allowed to leave the task in execution. This test showed that such library tasks remain in execution when the main program terminates.
- . CA1012A4M-B.DEP: This test checks whether an implementation requires generic library unit bodies to be compiled in the same compilation as the generic declaration. ADE Ada allows generic declarations and bodies to be compiled in completely separate compilations.
- . BC3204C\*-B.ADA and BC3205D\*-B.ADA: These tests contain a separately compiled generic declaration, some instantiations, and a body. An implementation must reject either the instantiations or the body. ADE Ada rejected the body because it was not in the same compilation as its declaration.

- . CE2106A-B.DEP and CE3110A-B.DEP: These tests confirmed that dynamic creation and deletion of files is supported.
- . EE3102C-B.ADA: This test confirmed that an Ada program can open an existing file in OUT\_FILE mode, and can create an existing file in either OUT\_FILE or IN\_FILE mode.
- . CE3111A-B.DEP: This test confirmed that more than one internal file could be associated with the same external file provided that both internal files were opened for reading.

#### 4.2.9 Anomalous Test Results

An anomaly is test behavior that suggests the implementation does not conform to the Standard. The test behavior is not, however, considered to demonstrate nonconformance to the Standard for purposes of this validation attempt. The reasons for discounting an anomalous test result vary, depending on the anomaly. The existence of an anomaly sometimes means that new tests should be added to the suite to demonstrate the suspected nonconformance in a more convincing manner. Sometimes, when the anomaly is the result of procedural errors during the validation attempt, the existence of an anomaly requires revisions in validation procedures.

One anomaly occurred during the validation attempt:

E24101A-B.TST checks to see that based integer literals are always non-negative. The expected behavior of this test is to either reject the test at compile-time because the based integer literal value exceeds SYSTEM.MAX\_INT or to reject the test at run-time by raising NUMERIC\_ERROR. The ADE Ada Compiler implementation rejects the test at compile-time indicating that the based literal exceeds SYSTEM.MAX\_INT. However, the compiler "corrects" this literal to a value that does not exceed SYSTEM.MAX\_INT thus making the test syntactically and semantically correct. As a result, E24101A-B.TST was added to the library and was subsequently executed. The test printed "FAILED" since the value of the based literal no longer exceeded SYSTEM.MAX\_INT.

Section 10.3 paragraph 3 of the Standard states, "If any error is detected while attempting to compile a compilation unit, then the attempted compilation is rejected and it has no effect on the program library." Since the compilation unit containing the reported error was added to the library, the implementation does not seem to conform to this paragraph in the Standard. However, the only evidence indicating the existence of an error was the error message produced at compile-time. The unit that was actually added to the library contained no error.

This test is considered an anomaly (rather than a failure) because although the evidence suggests that the implementation does not conform to the Standard, the evidence is not sufficiently conclusive when only this one test is considered.

## 5. SUMMARY AND CONCLUSIONS

The Ada Validation Office identified 1714 of the ACVC version 1.3 tests as being potentially applicable to the validation of the Data General Corporation compiler hosted on the Eclipse MV/10000, MV/4000, MV/6000, MV/8000C, MV/8000II and the Rolm MSE/800. Of these, 61 were withdrawn due to test errors, and 32 were determined to be inapplicable after they were processed. The compiler passed the remaining 1652 tests.

The AVO considers these results to show acceptable compliance to the February 1983 ANSI Ada Reference Manual.

**APPENDIX A**  
**COMPLETE LIST OF TESTS AND RESULTS**

## A. COMPLETE LIST OF TESTS AND RESULTS

This Appendix gives a complete list of the ACVC test files used in the validation attempt, in order by ACVC Implementers' Guide (Ada Reference Manual) section and objective.

To obtain more information about a test itself, the test name indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test. The name is interpreted as follows, where the first column below indicates the character position in the name and the second column, the meaning of that position:

- |      |   |
|------|---|
| 1    | Class of test (A, B, C, D, E, L).   |
| 2    | Implementers' Guide Chapter number (in hexadecimal).                      |
| 3    | Implementers' Guide Section number within a Chapter (in hexadecimal).     |
| 4    | Implementers' Guide Subsection number or letter                           |
| 5, 6 | Implementers' Guide Test Objective number (two digit decimal number).     |
| 7    | Test sequence letter (A-Z).   |
| 8    | Compilation sequence digit or letter (0-9,A-Z).                           |
| 9    | When there are several compilation units, "M" indicates the main program. |

Characters 8 and 9 are only present for tests that consist of several separately compiled units. The eighth character indicates the order in which the units are to be compiled (unit 0 is compiled first). The ninth character is only present for the main program and is always "M".

The suffix -AB means the test is valid for both the ANSI Ada Standard and the version of Ada published in July 1980. A -B suffix implies the test is only valid for the ANSI Standard. Tests without a suffix are considered to be applicable to both the ANSI Standard and the July 1980 version.

A file name ending with .TST means the test depends on one or more of the implementation dependent parameters listed in Section 4.1. A file name ending with .DEP means the test is not necessarily applicable to all implementations.

The result for each file is also given, where:

- P = passed.
- PC = compilation was successful (for unit of multiple unit test).
- PS = passed after modifying (splitting) the test (e.g., to see if all errors can be detected by the compiler).
- A = anomalous.
- F = failed.
- FE = failed to execute to completion.
- FC = failed to compile correctly.
- NA = not applicable to this implementation.
- W = withdrawn due to test errors.

In addition, the following data were collected and are given for each test file. No timing information was collected. [All times are real (i.e., wall-clock) times.]

SC = n The number of semicolons in the source file.

CT = n the compilation time (in seconds).

ET = n the execution (CPU) time (in seconds).

EC = n the number of intentional errors (marked by comments) in a class B file.

The results for each test file were as follows:



A21001A.ADA	P	SC = 29	
B22001A-AB.TST	P	SC = 14	EC = 1
B22001B-AB.TST	P	SC = 14	EC = 1
B22001C-AB.TST	P	SC = 14	EC = 1
B22001D-AB.TST	P	SC = 15	EC = 1
B22001E-AB.TST	P	SC = 12	EC = 1
B22001F-AB.TST	P	SC = 12	EC = 1
B22001G-AB.TST	P	SC = 12	EC = 1
B22001H-AB.TST	P	SC = 12	EC = 1
B22001I-AB.TST	P	SC = 4	EC = 1
B22001J-AB.TST	P	SC = 4	EC = 1
B22001K-AB.TST	P	SC = 4	EC = 1
B22001L-AB.TST	P	SC = 5	EC = 1
B22001M-AB.TST	P	SC = 5	EC = 1
B22001N-AB.TST	P	SC = 5	EC = 1
A22002A.ADA	P	SC = 26	
B22003A.ADA	P	SC = 11	EC = 5
B22004A.ADA	P	SC = 7	EC = 5
B22004B.ADA	P	SC = 6	EC = 4
B22004C.ADA	P	SC = 7	EC = 4
C23001A.ADA	P	SC = 16	
B23002A.ADA	P	SC = 13	EC = 6
C23003A.TST	P	SC = 17	
B23003D-AB.TST	P	SC = 4	EC = 1
B23003E-AB.TST	P	SC = 3	EC = 1
B23003F-AB.TST	P	SC = 3	EC = 1
B23004A.ADA	P	SC = 19	EC = 8
B23004B.ADA	P	SC = 27	EC = 12
B24001A.ADA	P	SC = 30	EC = 14
B24001B.ADA	P	SC = 36	EC = 17
B24001C.ADA	P	SC = 37	EC = 17
C24002A.ADA	P	SC = 10	
C24002B.ADA	P	SC = 10	
C24002C.ADA	P	SC = 11	
C24003A.TST	P	SC = 15	
C24003B.TST	P	SC = 20	
C24003C.TST	P	SC = 21	
B24005A.ADA	P	SC = 14	EC = 6
B24005B.ADA	P	SC = 15	EC = 6
E24101A-B.TST	A	SC = 15	
C24102A.ADA	P	SC = 13	
C24102B.ADA	P	SC = 14	
C24102C.ADA	P	SC = 17	
C24103A.ADA	P	SC = 38	
B24104A.ADA	P	SC = 20	EC = 18
B24104B.ADA	P	SC = 8	EC = 6
B24104C.ADA	P	SC = 9	EC = 6
C24113A-B.DEP	P	SC = 18	
C24113B-B.DEP	P	SC = 18	

B26002A.ADA	P	SC = 11	EC = 4
C26002B.ADA	P	SC = 19	
A26004A.TST	P	SC = 11	
B26005A.ADA	P	SC = 37	EC = 31
C26006A-AB.ADA	P	SC = 12	
C26008A-AB.ADA	P	SC = 9	
C27001A-AB.ADA	P	SC = 10	
C27002A-B.ADA	P	SC = 13	
B29001A-B.ADA	P	SC = 128	EC = 63
A29002A-B.ADA	P	SC = 65	
A29002B-B.ADA	P	SC = 67	
A29002C-B.ADA	P	SC = 66	
A29002D-B.ADA	P	SC = 83	
A29002E-B.ADA	P	SC = 67	
A29002F-B.ADA	P	SC = 108	
A29002G-B.ADA	P	SC = 84	
A29002H-B.ADA	P	SC = 57	
A29002I-B.ADA	P	SC = 93	
A29002J-B.ADA	P	SC = 73	
D29002K-B.ADA	P	SC = 718	
B32103A-AB.ADA	P	SC = 26	EC = 12
B32106A-B.ADA	P	SC = 10	EC = 4
B32201A-B.ADA	P	SC = 64	EC = 27
B32202A-B.ADA	P	SC = 33	EC = 15
B32202B-B.ADA	P	SC = 21	EC = 9
B32202C-B.ADA	P	SC = 28	EC = 12
C32203A-B.ADA	P	SC = 15	
A32203B-B.ADA	P	SC = 22	
A32203C-B.ADA	P	SC = 18	
A32203D-B.ADA	P	SC = 16	
B33001A.ADA	P	SC = 27	EC = 10
B33002A.ADA	P	SC = 8	EC = 5
B33003A.ADA	P	SC = 14	EC = 4
B33003B-AB.ADA	P	SC = 22	EC = 9
B33003C-AB.ADA	P	SC = 22	EC = 9
B33004A.ADA	P	SC = 33	EC = 19
C34001A-B.ADA	P	SC = 65	
C34001B-B.ADA	P	SC = 37	
C34001C-B.ADA	P	SC = 34	
C34001D-B.DEP	P	SC = 21	
C34001E-B.DEP	P	SC = 21	
C34001F-B.DEP	W		
C34001G-B.DEP	P	SC = 38	
C34001H-B.ADA	P	SC = 20	
C34001I-B.ADA	P	SC = 26	
C34001K-B.ADA	P	SC = 51	
C34001L-B.ADA	P	SC = 44	
C34001M-B.ADA	P	SC = 25	
C34001N-B.ADA	P	SC = 25	

C340010-B.ADA	P	SC = 80	
C34001P-B.ADA	P	SC = 22	
C34001Q-B.ADA	P	SC = 25	
C34001R-B.ADA	P	SC = 19	
B34001S-AB.ADA	P	SC = 13	EC = 3
C34001T-B.ADA	P	SC = 20	
C34002A-B.ADA	P	SC = 58	
C34002B-B.ADA	P	SC = 28	
B34008A-B.ADA	W		
A34008B-B.ADA	P	SC = 34	
B35101A.ADA	P	SC = 6	EC = 3
C35104A.ADA	P	SC = 9	
B35301A.ADA	P	SC = 12	EC = 6
B35501A.ADA	P	SC = 34	EC = 18
C35504A-AB.ADA	P	SC = 13	
C35504B-B.ADA	P	SC = 22	
C35505A.ADA	P	SC = 28	
C35505B.ADA	P	SC = 27	
B35506A.ADA	P	SC = 36	EC = 9
B35506B.ADA	P	SC = 23	EC = 9
C35508A-AB.ADA	P	SC = 21	
C35508B-B.ADA	P	SC = 57	
B35701A.TST	P	SC = 10	EC = 6
C35702A-AB.DEP	P	SC = 7	
C35702B-AB.DEP	P	SC = 7	
C35703A.ADA	P	SC = 11	
C35704A-AB.ADA	P	SC = 12	
C35704B-AB.ADA	P	SC = 12	
C35704C-AB.ADA	P	SC = 12	
C35704D-AB.ADA	P	SC = 16	
C35705A-B.DEP	P	SC = 16	
C35705B-B.DEP	P	SC = 16	
C35706A-B.DEP	P	SC = 15	
C35706B-B.DEP	P	SC = 15	
C35707A-B.DEP	P	SC = 11	
C35707B-B.DEP	P	SC = 11	
C35708A-B.DEP	P	SC = 11	
C35708B-B.DEP	P	SC = 11	
B35709A.ADA	P	SC = 14	EC = 3
C35711A-B.ADA	P	SC = 31	
C35802A-B.DEP	P	SC = 22	
C35802B-B.DEP	P	SC = 22	
C35904A-B.ADA	P	SC = 31	
B35A03A-B.ADA	P	SC = 6	EC = 2
B36101A-AB.ADA	P	SC = 119	EC = 68
B36102A.ADA	P	SC = 35	EC = 17
B36103A.ADA	P	SC = 17	EC = 7
B36105A-B.ADA	P	SC = 12	EC = 6
B36171A-B.ADA	P	SC = 68	EC = 33

B36171B-B.ADA	P	SC = 16	EC = 4
B36171C-AB.ADA	P	SC = 4	EC = 1
B36171D-AB.ADA	P	SC = 3	EC = 1
B36171E-AB.ADA	P	SC = 3	EC = 1
B36171F-AB.ADA	P	SC = 3	EC = 1
B36171G-AB.ADA	P	SC = 5	EC = 1
B36171H-AB.ADA	P	SC = 4	EC = 1
B36171I-AB.ADA	P	SC = 4	EC = 1
C36172A-B.ADA	P	SC = 86	
C36174A-B.ADA	W		
B36201A-B.ADA	P	SC = 60	EC = 32
E36202A-B.ADA	P	SC = 20	
E36202B-B.ADA	P	SC = 23	
C36204A-B.ADA	P	SC = 51	
C36205A.ADA	P	SC = 70	
C36205B.ADA	P	SC = 62	
C36205C.ADA	P	SC = 58	
C36205D.ADA	P	SC = 72	
C36205E.ADA	P	SC = 57	
C36205F.ADA	P	SC = 58	
C36205G.ADA	P	SC = 58	
C36205H.ADA	P	SC = 59	
C36205I.ADA	P	SC = 59	
C36205J.ADA	P	SC = 67	
C36205K.ADA	P	SC = 62	
C36301A-B.ADA	P	SC = 16	
C36301B-AB.ADA	P	SC = 12	
C36302A.ADA	P	SC = 9	
C36303A.ADA	P	SC = 15	
C36304A-B.ADA	P	SC = 38	
C36305A-AB.ADA	P	SC = 40	
B37003A-AB.ADA	P	SC = 33	EC = 14
B37004A-B.ADA	P	SC = 44	EC = 27
B37004C-B.ADA	P	SC = 12	EC = 4
B37004D-B.ADA	P	SC = 4	EC = 1
B37004E-B.ADA	P	SC = 8	EC = 1
B37004F-B.ADA	P	SC = 9	EC = 1
B37004G-B.ADA	P	SC = 5	EC = 1
B37004H-B.ADA	P	SC = 12	EC = 5
C37005A.ADA	P	SC = 30	
C37007A-AB.ADA	P	SC = 60	
C37008A-B.ADA	P	SC = 126	
C37008B-B.ADA	P	SC = 99	
C37011A-B.ADA	P	SC = 26	
C37012A-AB.ADA	P	SC = 19	
C37013A-AB.ADA	P	SC = 18	
B37101A.ADA	P	SC = 44	EC = 9
C37103A-AB.ADA	P	SC = 41	
C37105A.ADA	P	SC = 18	

B37201A.ADA	P	SC = 28	EC = 13
B37202A.ADA	P	SC = 44	EC = 19
B37202B.ADA	P	SC = 7	EC = 1
B37203A.ADA	P	SC = 14	EC = 6
B37204A-AB.ADA	P	SC = 54	EC = 11
B37205A-AB.ADA	P	SC = 8	EC = 3
C37208A-B.ADA	P	SC = 62	
C37208B-AB.ADA	P	SC = 36	
C37209A.ADA	P	SC = 73	
B37301A.ADA	P	SC = 25	EC = 8
B37301B.ADA	P	SC = 33	EC = 6
B37302A-AB.ADA	P	SC = 36	EC = 11
B37303A.ADA	P	SC = 25	EC = 5
C37304A-AB.ADA	P	SC = 22	
C37305A.ADA	P	SC = 24	
C37306A.ADA	P	SC = 21	
C37307A-AB.ADA	P	SC = 30	
B37307B-AB.ADA	P	SC = 21	EC = 3
C37309A-AB.ADA	P	SC = 22	
B37309B-AB.ADA	P	SC = 17	EC = 2
C37310A-AB.ADA	P	SC = 48	
B37310B-B.ADA	P	SC = 30	EC = 5
B37311A-AB.ADA	P	SC = 10	EC = 2
B38001A.ADA	P	SC = 12	EC = 4
B38003A-AB.ADA	P	SC = 23	EC = 13
C38004A.ADA	P	SC = 19	
C38005A-B.ADA	P	SC = 66	
C38006A-B.ADA	P	SC = 12	
C38007A-B.ADA	P	SC = 13	
B38008A-B.ADA	P	SC = 18	EC = 8
B38008B-AB.ADA	P	SC = 24	EC = 12
B38101A-B.ADA	P	SC = 47	EC = 12
B38101B-AB.ADA	P	SC = 12	EC = 1
C38102A-AB.ADA	P	SC = 89	
C38102B-B.ADA	P	SC = 16	
C38102C-B.ADA	P	SC = 16	
B38103A-B.ADA	P	SC = 70	EC = 11
C38104A-B.ADA	P	SC = 33	
B38105A-AB.ADA	P	SC = 32	EC = 11
B38105B-AB.ADA	P	SC = 28	EC = 6
B38106A-B.ADA	P	SC = 45	EC = 7
B38106B-B.ADA	P	SC = 45	EC = 7
B41101A-B.ADA	P	SC = 19	EC = 5
B41101C-AB.ADA	P	SC = 23	EC = 6
C41101D-B.ADA	P	SC = 33	
B41102A-AB.ADA	P	SC = 9	EC = 1
B41102B-B.ADA	P	SC = 9	EC = 1
B41102C-B.ADA	P	SC = 9	EC = 1
C41103A-B.ADA	P	SC = 117	

C41103B-B.ADA	P	SC = 117	
C41105A-B.ADA	P	SC = 28	
C41106A-B.ADA	P	SC = 22	
C41107A-AB.ADA	P	SC = 71	
B41201A-B.ADA	P	SC = 58	EC = 21
B41201C.ADA	P	SC = 22	EC = 5
C41201D-B.ADA	P	SC = 36	
B41202A-B.ADA	P	SC = 12	EC = 3
B41202B-AB.ADA	P	SC = 8	EC = 1
B41202C-B.ADA	P	SC = 8	EC = 1
B41202D-B.ADA	P	SC = 8	EC = 1
C41203A-B.ADA	P	SC = 120	
C41203B-B.ADA	P	SC = 119	
C41204A.ADA	P	SC = 29	
C41205A-B.ADA	P	SC = 30	
C41206A.ADA	P	SC = 26	
C41301A-B.ADA	P	SC = 104	
B41302A-AB.ADA	P	SC = 6	EC = 1
B41302B-AB.ADA	P	SC = 7	EC = 1
C41303A-B.ADA	P	SC = 18	
C41303B-B.ADA	P	SC = 17	
C41303C-B.ADA	P	SC = 17	
C41303E-B.ADA	P	SC = 20	
C41303F-B.ADA	P	SC = 19	
C41303G-B.ADA	P	SC = 19	
C41303I-B.ADA	P	SC = 20	
C41303J-B.ADA	P	SC = 19	
C41303K-B.ADA	P	SC = 19	
C41303M-B.ADA	P	SC = 32	
C41303N-B.ADA	P	SC = 31	
C41303O-B.ADA	P	SC = 31	
C41303Q-B.ADA	P	SC = 34	
C41303R-B.ADA	P	SC = 33	
C41303S-B.ADA	P	SC = 33	
C41303U-B.ADA	P	SC = 34	
C41303V-B.ADA	P	SC = 33	
C41303W-B.ADA	P	SC = 33	
C41304A-B.ADA	P	SC = 50	
C41306A-B.ADA	P	SC = 18	
C41306B-B.ADA	P	SC = 32	
C41306C-B.ADA	P	SC = 32	
B44001A-B.ADA	P	SC = 67	EC = 27
B44002A-B.ADA	P	SC = 59	EC = 13
B44002B-B.ADA	P	SC = 23	EC = 5
B44002C.ADA	P	SC = 4	EC = 1
C45101A.ADA	P	SC = 56	
C45101B.ADA	P	SC = 35	
C45101C.ADA	P	SC = 26	
C45101E.ADA	P	SC = 35	

C45101G-AB.ADA	P	SC = 55	
C45101H-AB.ADA	P	SC = 34	
C45101I.ADA	P	SC = 23	
B45102A-AB.ADA	P	SC = 26	EC = 9
C45103A-AB.ADA	P	SC = 71	
C45103B-AB.ADA	P	SC = 31	
C45103C-AB.ADA	P	SC = 36	
C45104A.ADA	P	SC = 11	
C45105A-AB.ADA	P	SC = 18	
C45105B-B.ADA	P	SC = 28	
C45106A.ADA	P	SC = 31	
C45201A.ADA	P	SC = 108	
C45201B.ADA	P	SC = 102	
C45202A-AB.ADA	P	SC = 14	
B45203A.ADA	P	SC = 17	EC = 6
B45203B-AB.ADA	P	SC = 17	EC = 6
B45205A-AB.ADA	P	SC = 29	EC = 12
B45206A-AB.ADA	P	SC = 63	EC = 22
B45206B-B.ADA	P	SC = 10	EC = 2
B45207A-AB.ADA	P	SC = 14	EC = 2
B45207B-B.ADA	P	SC = 37	EC = 6
B45207C-B.ADA	P	SC = 41	EC = 6
B45207D-B.ADA	P	SC = 49	EC = 6
B45207G-B.ADA	P	SC = 15	EC = 3
B45207H-B.ADA	P	SC = 31	EC = 6
B45207I-B.ADA	P	SC = 35	EC = 6
B45207J-B.ADA	P	SC = 41	EC = 6
B45207M-AB.ADA	P	SC = 12	EC = 2
B45207N-AB.ADA	P	SC = 26	EC = 4
B45207O-AB.ADA	P	SC = 29	EC = 4
B45207P-B.ADA	P	SC = 31	EC = 4
B45207S-AB.ADA	P	SC = 13	EC = 2
B45207T-AB.ADA	P	SC = 28	EC = 4
B45207U-AB.ADA	P	SC = 31	EC = 4
B45207V-B.ADA	P	SC = 33	EC = 4
B45208A-AB.ADA	P	SC = 14	EC = 2
B45208B-B.ADA	P	SC = 21	EC = 3
B45208C-B.ADA	P	SC = 19	EC = 4
B45208G-AB.ADA	P	SC = 12	EC = 2
B45208H-B.ADA	P	SC = 16	EC = 3
B45208I-B.ADA	P	SC = 21	EC = 4
B45208M-AB.ADA	P	SC = 12	EC = 2
B45208N-AB.ADA	P	SC = 13	EC = 2
B45208S-AB.ADA	P	SC = 13	EC = 2
B45208T-AB.ADA	P	SC = 27	EC = 4
C45210A.ADA	P	SC = 85	
C45220A.ADA	P	SC = 102	
C45220B.ADA	P	SC = 192	
C45220C.ADA	P	SC = 107	

C45220D.ADA	P	SC = 197	
C45220E-B.ADA	P	SC = 13	
C45241A-B.DEP	P	SC = 50	
C45241B-B.DEP	P	SC = 50	
B45261A-AB.ADA	P	SC = 23	EC = 6
B45261B-AB.ADA	P	SC = 26	EC = 6
B45261C-AB.ADA	P	SC = 9	EC = 2
B45261D-AB.ADA	P	SC = 8	EC = 2
C45274A-AB.ADA	P	SC = 62	
C45274B-AB.ADA	P	SC = 65	
C45274C-AB.ADA	P	SC = 51	
C45321A-B.DEP	P	SC = 117	
C45321B-B.DEP	P	SC = 117	
C45345A-AB.ADA	P	SC = 29	
C45345B-AB.ADA	P	SC = 22	
C45401A.ADA	P	SC = 42	
C45401B-AB.ADA	P	SC = 54	
B45402A.ADA	P	SC = 29	EC = 12
C45421A-B.DEP	P	SC = 22	
C45421B-B.DEP	P	SC = 22	
C45424A-B.DEP	P	SC = 31	
C45424B-B.DEP	P	SC = 31	
C45521A-B.DEP	P	SC = 188	
C45521B-B.DEP	P	SC = 188	
B45522A.ADA	P	SC = 9	EC = 4
B45533A-AB.ADA	P	SC = 7	EC = 2
C45621A.DEP	P	SC = 53	
C45621B.DEP	P	SC = 53	
B48001A-B.ADA	P	SC = 71	EC = 7
B48001B-B.ADA	P	SC = 51	EC = 3
B48001C-AB.ADA	P	SC = 22	EC = 5
B48001D-B.ADA	P	SC = 51	EC = 3
B48002A-B.ADA	P	SC = 25	EC = 6
B48002B-AB.ADA	P	SC = 16	EC = 2
B48002C-B.ADA	P	SC = 31	EC = 9
B48002D-B.ADA	P	SC = 18	EC = 4
B48002E-AB.ADA	P	SC = 42	EC = 10
B48002F-AB.ADA	P	SC = 33	EC = 6
B48002G-AB.ADA	P	SC = 43	EC = 6
B48002I-B.ADA	P	SC = 24	EC = 4
B48002J-B.ADA	P	SC = 48	EC = 12
C48003A-B.ADA	P	SC = 27	
C48003B-B.ADA	P	SC = 28	
C48003C-B.ADA	P	SC = 21	
C48003D-B.ADA	P	SC = 25	
C48003E-B.ADA	P	SC = 32	
C48003F.ADA	P	SC = 15	
C48003G-B.ADA	P	SC = 24	
C48004A-B.ADA	P	SC = 92	



C48005A-B.ADA	P	SC = 17	
C48005B-B.ADA	P	SC = 45	
C48005C-AB.ADA	P	SC = 30	
C48005D-AB.ADA	P	SC = 15	
C4A001A.ADA	P	SC = 49	
D4A002A-AB.ADA	P	SC = 14	
D4A002B.ADA	P	SC = 14	
C4A003A.ADA	P	SC = 14	
D4A004A-AB.ADA	P	SC = 16	
D4A004B.ADA	P	SC = 24	
B4A006A-B.ADA	P	SC = 4	EC = 1
C4A011A.ADA	P	SC = 57	
C4A013A.ADA	P	SC = 14	
B4A016A.ADA	P	SC = 4	EC = 2
B51001A-AB.ADA	P	SC = 29	EC = 6
C51002A-AB.ADA	P	SC = 28	
B51003A-AB.ADA	P	SC = 15	EC = 6
C52001A-B.ADA	P	SC = 92	
C52001B-AB.ADA	P	SC = 21	
C52001C-AB.ADA	P	SC = 15	
B52002A-B.ADA	P	SC = 18	EC = 6
B52002B-AB.ADA	P	SC = 16	EC = 9
B52002C-AB.ADA	P	SC = 26	EC = 8
B52002D-AB.ADA	P	SC = 3	EC = 1
B52002E-AB.ADA	P	SC = 5	EC = 2
B52002F-B.ADA	P	SC = 5	EC = 1
B52002G-AB.ADA	P	SC = 5	EC = 1
B52003A-AB.ADA	P	SC = 7	EC = 3
B52004A-B.ADA	P	SC = 41	EC = 23
B52004B-AB.ADA	P	SC = 19	EC = 11
B52004C-AB.ADA	P	SC = 16	EC = 9
B52004D-AB.DEP	P	SC = 10	EC = 3
B52004E-AB.DEP	P	SC = 10	EC = 3
C52005A-AB.ADA	P	SC = 47	
C52005B-AB.ADA	P	SC = 27	
C52005C-AB.ADA	P	SC = 17	
C52005D-AB.ADA	P	SC = 53	
C52005E-AB.ADA	P	SC = 39	
C52005F-AB.ADA	P	SC = 23	
B52006A-AB.ADA	P	SC = 6	EC = 3
C52007A-B.ADA	P	SC = 91	
C52008A-AB.ADA	P	SC = 17	
C52008B-B.ADA	P	SC = 32	
C52009A-B.ADA	P	SC = 18	
C52009B-B.ADA	P	SC = 18	
C52010A-AB.ADA	P	SC = 69	
C52011A-B.ADA	P	SC = 50	
C52011B-AB.ADA	P	SC = 55	
C52102A-AB.ADA	P	SC = 95	

C52102B-AB.ADA	W		
C52103A-AB.ADA	P	SC = 49	
C52103B-AB.ADA	P	SC = 20	
C52103C-AB.ADA	P	SC = 28	
C52103F-AB.ADA	P	SC = 38	
C52103G-AB.ADA	P	SC = 21	
C52103H-AB.ADA	P	SC = 28	
C52103K-AB.ADA	P	SC = 49	
C52103L-AB.ADA	P	SC = 20	
C52103M-AB.ADA	P	SC = 28	
C52103P-AB.ADA	P	SC = 38	
C52103Q-AB.ADA	P	SC = 21	
C52103R-AB.ADA	P	SC = 28	
C52103X-B.ADA	P	SC = 44	
E52103Y-B.ADA	P	SC = 19	
C52104A-AB.ADA	P	SC = 54	
C52104B-AB.ADA	P	SC = 23	
C52104C-AB.ADA	P	SC = 30	
C52104F-AB.ADA	P	SC = 42	
C52104G-AB.ADA	P	SC = 23	
C52104H-AB.ADA	P	SC = 31	
C52104K-AB.ADA	P	SC = 54	
C52104L-AB.ADA	P	SC = 23	
C52104M-AB.ADA	P	SC = 30	
C52104P-AB.ADA	P	SC = 42	
C52104Q-AB.ADA	P	SC = 23	
C52104R-AB.ADA	P	SC = 31	
C52104X-B.ADA	P	SC = 38	
C52104Y-B.ADA	P	SC = 26	
B53001A-AB.ADA	P	SC = 12	EC = 1
B53001B-AB.ADA	P	SC = 9	EC = 1
B53002A-AB.ADA	P	SC = 9	EC = 1
B53002B-AB.ADA	P	SC = 11	EC = 1
B53003A-AB.ADA	P	SC = 17	EC = 4
B53004A-AB.ADA	P	SC = 36	EC = 11
C53004B-B.ADA	P	SC = 21	
C53005A-AB.ADA	P	SC = 79	
C53005B-AB.ADA	P	SC = 79	
C53006A-AB.ADA	P	SC = 56	
C53006B-AB.ADA	P	SC = 56	
C53007A-AB.ADA	P	SC = 68	
C53008A-AB.ADA	P	SC = 66	
B53009A-AB.ADA	P	SC = 20	EC = 3
B54A01A-AB.ADA	P	SC = 4	EC = 1
B54A01B-AB.ADA	P	SC = 4	EC = 1
B54A01C-AB.ADA	P	SC = 6	EC = 1
B54A01D-AB.ADA	P	SC = 6	EC = 1
B54A01E-AB.ADA	P	SC = 7	EC = 1
B54A01F-AB.ADA	P	SC = 4	EC = 1

B54A01G-AB.ADA	P	SC = 4	EC = 1
B54A01H-AB.ADA	P	SC = 4	EC = 1
B54A01I-AB.ADA	P	SC = 4	EC = 1
B54A01J-AB.ADA	P	SC = 4	EC = 1
B54A01K-AB.ADA	P	SC = 6	EC = 1
B54A01L-AB.ADA	P	SC = 20	EC = 6
C54A03A.ADA	P	SC = 48	
C54A04A-AB.ADA	P	SC = 21	
B54A05A.ADA	P	SC = 20	EC = 3
B54A05B.ADA	P	SC = 5	EC = 1
C54A06A-AB.ADA	P	SC = 15	
C54A07A-AB.ADA	P	SC = 26	
B54A08A-B.ADA	P	SC = 14	EC = 2
B54A20A.ADA	P	SC = 63	EC = 21
B54A21A-B.ADA	P	SC = 34	EC = 10
C54A22A-AB.ADA	P	SC = 15	
C54A23A-B.ADA	P	SC = 12	
C54A24A-AB.ADA	P	SC = 21	
C54A24B.ADA	P	SC = 13	
B54A25A-B.ADA	P	SC = 13	EC = 5
C54A26A.ADA	P	SC = 19	
C54A27A-AB.ADA	P	SC = 10	
B54A27B-AB.ADA	P	SC = 6	EC = 1
B54A27D-AB.ADA	P	SC = 6	EC = 1
C54A41A.ADA	P	SC = 42	
C54A42A.ADA	P	SC = 93	
C54A42B.ADA	P	SC = 93	
C54A42C.ADA	P	SC = 53	
C54A42D.ADA	P	SC = 41	
C54A42E.ADA	P	SC = 53	
C54A42F.ADA	P	SC = 57	
C54A42G.ADA	P	SC = 53	
A54B01A-B.ADA	P	SC = 37	
B54B01B-B.TST	P	SC = 32	EC = 7
B54B01C-B.ADA	P	SC = 15	EC = 2
A54B02A-B.ADA	P	SC = 80	
B54B02B-B.ADA	P	SC = 76	EC = 17
B54B02C-B.ADA	P	SC = 26	EC = 3
B54B02D-B.ADA	P	SC = 40	EC = 5
B54B04A-AB.ADA	P	SC = 26	EC = 4
B54B04B-AB.ADA	P	SC = 39	EC = 5
B54B05A-AB.ADA	P	SC = 25	EC = 6
B55A01A-AB.ADA	W		
B55A01B-AB.ADA	P	SC = 5	EC = 1
B55A01C-AB.ADA	P	SC = 5	EC = 1
B55A01D-AB.ADA	P	SC = 5	EC = 1
B55A01E-AB.ADA	P	SC = 5	EC = 1
B55A01F-AB.ADA	P	SC = 4	EC = 1
B55A01G-AB.ADA	P	SC = 4	EC = 1

B55A01H-AB.ADA	P	SC = 4	EC = 1
B55A01I-AB.ADA	P	SC = 4	EC = 1
B55A01J-AB.ADA	P	SC = 4	EC = 1
B55A01K-AB.ADA	P	SC = 4	EC = 1
B55A01L-AB.ADA	P	SC = 4	EC = 1
B55A01M-AB.ADA	P	SC = 4	EC = 1
B55A01N-AB.ADA	P	SC = 5	EC = 1
B55A01O-AB.ADA	P	SC = 5	EC = 1
B55A01P-AB.ADA	P	SC = 4	EC = 1
B55A01Q-AB.ADA	P	SC = 4	EC = 1
B55A01R-AB.ADA	P	SC = 4	EC = 1
B55A01S-AB.ADA	P	SC = 4	EC = 1
B55A01T-AB.ADA	P	SC = 5	EC = 1
B55A01U-AB.ADA	P	SC = 5	EC = 1
B55A01V-AB.ADA	P	SC = 5	EC = 1
D55A03A-AB.ADA	P	SC = 21	
D55A03B-AB.ADA	P	SC = 24	
D55A03C-AB.ADA	P	SC = 32	
D55A03D-AB.ADA	P	SC = 34	
D55A03E-AB.ADA	P	SC = 53	
D55A03F-AB.ADA	P	SC = 56	
D55A03G-AB.ADA	P	SC = 96	
D55A03H-AB.ADA	P	SC = 98	
B55B01A-AB.ADA	P	SC = 9	EC = 3
B55B01B-AB.ADA	P	SC = 18	EC = 3
C55B03A-AB.ADA	P	SC = 16	
C55B04A-AB.ADA	P	SC = 27	
C55B05A-AB.ADA	P	SC = 114	
C55B06A-AB.ADA	P	SC = 180	
C55B06B-AB.ADA	P	SC = 89	
C55B07A-AB.DEP	P	SC = 40	
C55B07B-AB.DEP	P	SC = 40	
C55B08A-B.ADA	P	SC = 30	
C55B09A-AB.ADA	P	SC = 34	
B55B09B-AB.ADA	P	SC = 26	EC = 12
B55B09C-AB.DEP	W		
B55B09D-AB.DEP	W		
A55B12A-AB.ADA	P	SC = 45	
B55B12B-B.ADA	P	SC = 40	EC = 7
B55B12C-AB.ADA	P	SC = 48	EC = 8
A55B13A-AB.ADA	P	SC = 34	
A55B14A-AB.ADA	P	SC = 33	
B55B14B-B.ADA	P	SC = 67	EC = 11
C55B15A-B.ADA	P	SC = 70	
C55B16A-AB.DEP	P	SC = 23	
B55B18A-B.ADA	P	SC = 14	EC = 4
C55C01A-B.ADA	P	SC = 25	
C55C02A-AB.ADA	P	SC = 11	
C55C02B-AB.ADA	P	SC = 16	

C55C03A-AB.ADA	P	SC = 87	
C55C03B-AB.ADA	P	SC = 87	
C55D01A-AB.ADA	P	SC = 46	
B56001A-AB.ADA	P	SC = 12	EC = 4
D56001B-AB.ADA	P	SC = 75	
B56001C-AB.ADA	P	SC = 3	EC = 1
B56001D-AB.ADA	P	SC = 3	EC = 1
B56001E-AB.ADA	P	SC = 4	EC = 1
B56001F-AB.ADA	P	SC = 4	EC = 1
B56001G-AB.ADA	P	SC = 3	EC = 1
B56001H-AB.ADA	P	SC = 4	EC = 1
C56002A-AB.ADA	P	SC = 40	
B57001A-AB.ADA	P	SC = 21	EC = 5
B57001B-B.ADA	P	SC = 47	EC = 6
B57001C-AB.ADA	P	SC = 28	EC = 5
B57001D-AB.ADA	P	SC = 37	EC = 10
C57002A-AB.ADA	P	SC = 44	
C57003A-AB.ADA	P	SC = 96	
C57004A-AB.ADA	P	SC = 56	
C57004B-AB.ADA	P	SC = 56	
C57004C-AB.ADA	P	SC = 27	
C57005A-B.ADA	P	SC = 27	
B58001A-AB.ADA	P	SC = 11	EC = 2
B58002A-B.ADA	P	SC = 11	EC = 2
B58002B-AB.ADA	P	SC = 10	EC = 2
B58002C-AB.ADA	P	SC = 8	EC = 1
B58003A-B.ADA	P	SC = 10	EC = 1
B58003B-AB.ADA	P	SC = 10	EC = 1
C58004A-AB.ADA	P	SC = 26	
C58004B-AB.ADA	P	SC = 20	
C58004C-AB.ADA	P	SC = 26	
C58004D-AB.ADA	W		
C58004F-AB.ADA	P	SC = 22	
C58004G-AB.ADA	P	SC = 31	
C58005A-AB.ADA	P	SC = 37	
C58005B-AB.ADA	P	SC = 22	
C58005H-AB.ADA	P	SC = 68	
C58006A-AB.ADA	P	SC = 40	
C58006B-AB.ADA	P	SC = 46	
B59001A-AB.ADA	P	SC = 43	EC = 27
C59001B-AB.ADA	P	SC = 39	
B59001C-AB.ADA	P	SC = 34	EC = 21
B59001D-AB.ADA	P	SC = 42	EC = 16
B59001E-AB.ADA	P	SC = 28	EC = 18
B59001F-AB.ADA	P	SC = 51	EC = 25
B59001G-AB.ADA	P	SC = 14	EC = 2
B59001H-AB.ADA	P	SC = 16	EC = 2
B59001I-AB.ADA	P	SC = 41	EC = 17
C59002A-AB.ADA	P	SC = 30	

C59002B-AB.ADA	P	SC = 55	
C59002C-B.ADA	P	SC = 52	
B61001A-AB.ADA	P	SC = 3	EC = 1
B61001B-AB.ADA	P	SC = 3	EC = 1
B61001C-AB.ADA	P	SC = 4	EC = 1
B61001D-AB.ADA	P	SC = 4	EC = 1
B61001E-AB.ADA	P	SC = 4	EC = 1
B61001F-AB.ADA	P	SC = 4	EC = 1
B61001G-AB.ADA	P	SC = 4	EC = 1
B61001H-AB.ADA	P	SC = 5	EC = 1
B61001I-AB.ADA	P	SC = 5	EC = 1
B61001J-AB.ADA	P	SC = 4	EC = 1
B61001K-AB.ADA	P	SC = 4	EC = 1
B61001L-AB.ADA	P	SC = 4	EC = 1
B61001M-AB.ADA	P	SC = 4	EC = 1
B61003A.ADA	P	SC = 7	EC = 1
C61003B.ADA	P	SC = 28	
B61005A-B.ADA	P	SC = 26	EC = 5
B61005B-B.ADA	P	SC = 26	EC = 3
C61008A-B.ADA	P	SC = 67	
C61009A-B.ADA	P	SC = 52	
C61010A-AB.ADA	W		
B62001A.ADA	P	SC = 45	EC = 18
B62001B-AB.ADA	P	SC = 5	EC = 2
B62001C-AB.ADA	P	SC = 4	EC = 2
B62001D-AB.ADA	P	SC = 6	EC = 2
C62002A-B.ADA	P	SC = 67	
C62003A-B.ADA	P	SC = 71	
C62004A.ADA	P	SC = 15	
B63001A.ADA	P	SC = 10	EC = 4
C63004A-AB.ADA	P	SC = 15	
B63005A-AB.ADA	P	SC = 50	EC = 6
B63005B-AB.ADA	P	SC = 27	EC = 4
B64001A-B.ADA	P	SC = 29	EC = 5
B64002A.ADA	P	SC = 27	EC = 9
C64002B-B.ADA	P	SC = 15	
B64003A.ADA	P	SC = 26	EC = 9
B64004A.ADA	P	SC = 29	EC = 10
C64004B.ADA	P	SC = 43	
B64005A-AB.ADA	P	SC = 73	EC = 16
B64006A.ADA	P	SC = 10	EC = 2
C64007A.ADA	P	SC = 18	
B64101A-B.ADA	P	SC = 175	EC = 54
C64104A-AB.ADA	P	SC = 53	
C64104B-AB.ADA	P	SC = 46	
C64104C-AB.ADA	P	SC = 58	
C64104D-AB.ADA	P	SC = 24	
C64104E-AB.ADA	P	SC = 17	
C64104F-AB.ADA	P	SC = 16	

C64104G-AB.ADA	P	SC = 24	
C64104H.ADA	P	SC = 28	
C64104I.ADA	P	SC = 18	
C64104J.ADA	P	SC = 15	
C64104K-AB.ADA	P	SC = 19	
C64104L-AB.ADA	P	SC = 33	
C64104M-AB.ADA	P	SC = 23	
C64105A.ADA	P	SC = 15	
C64105B-AB.ADA	P	SC = 32	
C64105C-AB.ADA	P	SC = 33	
C64105D-AB.ADA	P	SC = 31	
C64106A-B.ADA	P	SC = 124	
C64106B-B.ADA	P	SC = 83	
C64106C-B.ADA	P	SC = 115	
C64106D-B.ADA	P	SC = 97	
C64107A-B.ADA	P	SC = 25	
C64108A-B.ADA	P	SC = 74	
B65001A.ADA	P	SC = 13	EC = 4
B65002A-AB.ADA	P	SC = 8	EC = 1
B65002B-AB.ADA	P	SC = 10	EC = 1
B66001A-B.ADA	P	SC = 67	EC = 12
B66001C.ADA	P	SC = 31	EC = 6
C66002A-B.ADA	P	SC = 27	
C66002C.ADA	P	SC = 27	
C66002D.ADA	P	SC = 23	
C66002E-AB.ADA	P	SC = 21	
C66002F.ADA	P	SC = 19	
C66002G-B.ADA	P	SC = 19	
B67001A-B.ADA	P	SC = 102	EC = 41
B67001B-AB.ADA	P	SC = 75	EC = 11
C67002A.ADA	P	SC = 145	
C67003A-B.ADA	P	SC = 82	
C67003B.ADA	P	SC = 70	
C67003C-AB.ADA	P	SC = 42	
C67003D-B.ADA	P	SC = 54	
C67003E-AB.ADA	P	SC = 22	
C67005A-B.ADA	P	SC = 33	
C67005B-B.ADA	P	SC = 48	
B71001A-AB.ADA	P	SC = 8	EC = 4
B71001B-AB.ADA	P	SC = 6	EC = 1
B71001C-AB.ADA	P	SC = 5	EC = 1
B71001D-AB.ADA	P	SC = 2	EC = 1
B71001E-AB.ADA	P	SC = 6	EC = 2
B71001F-AB.ADA	P	SC = 6	EC = 1
B71001G-AB.ADA	P	SC = 8	EC = 4
B71001H-AB.ADA	P	SC = 6	EC = 1
B71001I-AB.ADA	P	SC = 5	EC = 1
B71001J-AB.ADA	P	SC = 2	EC = 1
B71001K-AB.ADA	P	SC = 6	EC = 2

B71001L-AB.ADA	P	SC = 6	EC = 1
B71001M-AB.ADA	P	SC = 8	EC = 4
B71001N-AB.ADA	P	SC = 6	EC = 1
B71001O-AB.ADA	P	SC = 6	EC = 1
B71001P-AB.ADA	P	SC = 3	EC = 1
B71001Q-AB.ADA	P	SC = 6	EC = 2
B71001R-AB.ADA	P	SC = 3	EC = 1
B71001T-AB.ADA	P	SC = 6	EC = 1
B71001U-AB.ADA	P	SC = 6	EC = 1
B71001V-AB.ADA	P	SC = 3	EC = 1
B71001W-AB.ADA	P	SC = 6	EC = 2
A71002A-AB.ADA	P	SC = 18	
B71002B-AB.ADA	P	SC = 5	EC = 1
A71004A-AB.ADA	P	SC = 64	
A72001A-AB.ADA	P	SC = 14	
C72001B-AB.ADA	P	SC = 25	
B73001A-AB.ADA	P	SC = 17	EC = 3
B73001B-AB.ADA	P	SC = 19	EC = 4
B73001C-B.ADA	P	SC = 6	EC = 1
B73001D-B.ADA	P	SC = 29	EC = 4
B73001E-AB.ADA	P	SC = 23	EC = 4
B73001F-AB.ADA	P	SC = 19	EC = 4
B73001G-B.ADA	P	SC = 6	EC = 1
B73001H-B.ADA	P	SC = 53	EC = 8
C73002A-B.ADA	P	SC = 28	
B73006A-AB.ADA	P	SC = 10	EC = 2
B74001A-AB.ADA	P	SC = 46	EC = 18
B74001B-AB.ADA	P	SC = 39	EC = 14
B74003A-B.ADA	P	SC = 14	EC = 2
A74006A-AB.ADA	P	SC = 64	
B74101A-B.ADA	P	SC = 105	EC = 17
B74102B-B.ADA	P	SC = 40	EC = 18
B74103A-B.ADA	P	SC = 69	EC = 40
B74103B-B.ADA	P	SC = 150	EC = 40
B74103C-B.ADA	P	SC = 71	EC = 40
B74103D-B.ADA	P	SC = 69	EC = 40
B74104A-B.ADA	P	SC = 23	EC = 8
B74105A-B.ADA	P	SC = 28	EC = 8
A74105B-B.ADA	P	SC = 22	
B74105C-B.ADA	P	SC = 26	EC = 4
A74106A-AB.ADA	P	SC = 95	
A74106B-AB.ADA	P	SC = 93	
A74106C-AB.ADA	P	SC = 85	
C74203B-B.ADA	P	SC = 41	
B74205A-B.ADA	W		
B74205B-B.ADA	P	SC = 45	EC = 7
A74205E-B.ADA	P	SC = 54	
A74205F-B.ADA	P	SC = 28	
A74205G-B.ADA	P	SC = 28	



A74205H-B.ADA	P	SC = 28	
C74206A-B.ADA	W		
B74207A-B.ADA	W		
C74209A-AB.ADA	P	SC = 76	
C74210A-AB.ADA	P	SC = 45	
C74211A-B.ADA	P	SC = 73	
C74211B-B.ADA	P	SC = 54	
B74301A-B.ADA	P	SC = 80	EC = 21
B74301B-B.ADA	P	SC = 21	EC = 4
B74301C-B.ADA	P	SC = 22	EC = 4
B74401A-B.ADA	P	SC = 95	EC = 18
C74402A-B.ADA	P	SC = 56	
B74409A-B.ADA	P	SC = 20	EC = 3
C74409B-B.ADA	P	SC = 24	
B83A01A-AB.ADA	P	SC = 16	EC = 6
B83A01B-B.ADA	P	SC = 14	EC = 5
B83A01C.ADA	P	SC = 21	EC = 5
A83A02A.ADA	P	SC = 35	
A83A02B.ADA	P	SC = 30	
B83A05A-AB.ADA	W		
A83A06A-B.ADA	W		
B83A06B-B.ADA	W		
B83A06H-B.ADA	P	SC = 21	EC = 2
B83B01A-AB.ADA	P	SC = 5	EC = 1
C83B02A.ADA	P	SC = 25	
C83B02B.ADA	P	SC = 31	
B83B02C.ADA	P	SC = 10	EC = 2
B83C01A-AB.ADA	P	SC = 38	EC = 15
C83C01B.ADA	P	SC = 37	
A83C01C.ADA	P	SC = 20	
A83C01D.ADA	P	SC = 24	
A83C01E.ADA	P	SC = 33	
A83C01F.ADA	P	SC = 42	
A83C01G.ADA	P	SC = 52	
A83C01H.ADA	P	SC = 22	
A83C01I.ADA	P	SC = 26	
A83C01J.ADA	P	SC = 18	
B83C02A.ADA	P	SC = 27	EC = 8
C83E02A.ADA	P	SC = 29	
C83E02B.ADA	P	SC = 16	
B83E02C-B.ADA	P	SC = 12	EC = 2
C83E03A.ADA	P	SC = 23	
C83E04A.ADA	P	SC = 37	
C83F01A.ADA	P	SC = 24	
C83F01B.ADA	P	SC = 30	
C83F01C0.ADA	PC	SC = 9	
C83F01C1.ADA	PC	SC = 7	
C83F01C2M.ADA	P	SC = 7	
C83F01DOM.ADA	P	SC = 22	

C83F01D1.ADA	PC	SC = 7		
B83F02A.ADA	P	SC = 42	EC = 19	
B83F02B.ADA	P	SC = 22	EC = 13	
C83F03A.ADA	P	SC = 40		
C83F03B.ADA	P	SC = 66		
C83F03C0.ADA	PC	SC = 6		
C83F03C1.ADA	PC	SC = 26		
C83F03C2M.ADA	P	SC = 7		
C83F03DOM.ADA	P	SC = 18		
C83F03D1.ADA	PC	SC = 41		
B83F04A-AB.ADA	P	SC = 68	EC = 18	
B84001A-AB.ADA	P	SC = 28	EC = 10	
B86001A0-AB.ADA	PC	SC = 3	EC = 0	
B86001A1M-AB.ADA	P	SC = 3	EC = 1	
B86001B0M-B.ADA	P	SC = 3	EC = 0	
B86001BA-B.ADA	P	SC = 3	EC = 1	
B86001BB-B.ADA	P	SC = 3	EC = 1	
B86001BC-B.ADA	P	SC = 3	EC = 1	
B86001BD-B.ADA	P	SC = 3	EC = 1	
B86001BE-B.ADA	P	SC = 3	EC = 1	
B86001BF-B.ADA	P	SC = 3	EC = 1	
B86001BG-B.ADA	P	SC = 3	EC = 1	
B86001BH-B.ADA	P	SC = 3	EC = 1	
B86001BI-B.ADA	P	SC = 3	EC = 1	
B86001BJ-B.ADA	P	SC = 3	EC = 1	
B86001BK-B.ADA	P	SC = 3	EC = 1	
B86001BL-B.ADA	P	SC = 3	EC = 1	
B86001BM-B.ADA	P	SC = 3	EC = 1	
B86001BO-B.ADA	P	SC = 3	EC = 1	
B86001BU-B.ADA	P	SC = 3	EC = 1	
B86001BV-B.ADA	P	SC = 2	EC = 1	
B86001BW-B.ADA	P	SC = 2	EC = 1	
B86001BX-B.ADA	P	SC = 2	EC = 1	
B86001COM-AB.DEP	P	SC = 3	EC = 0	
B86001CP-AB.DEP	P	SC = 3	EC = 1	
B86001CQ-AB.DEP	P	SC = 3	EC = 1	
B86001CR-AB.DEP	P	SC = 3	EC = 1	
B86001CS-AB.DEP	P	SC = 3	EC = 1	
B86001DOM-AB.TST	P	SC = 3	EC = 0	
B86001DT-AB.TST	P	SC = 3	EC = 1	
C86001E-B.ADA	W			
C86002A0.ADA	PC	SC = 3		
C86002A1.ADA	PC	SC = 5		
C86002A2M.ADA	P	SC = 29		
C86002B1.ADA	PC	SC = 4		
C86002B2M.ADA	P	SC = 27		
C86003A-B.ADA	P	SC = 34		
C87A05A-B.ADA	P	SC = 36		
C87A05B-B.ADA	P	SC = 35		

C87B02A-B.ADA	P	SC = 43
C87B02B-B.ADA	P	SC = 43
C87B03A-B.ADA	P	SC = 14
C87B04A-B.ADA	W	
C87B04B-B.ADA	P	SC = 21
C87B04C-B.ADA	P	SC = 14
C87B05A-B.ADA	P	SC = 20
C87B06A-B.ADA	P	SC = 25
C87B07A-B.ADA	P	SC = 16
C87B07B-B.ADA	P	SC = 35
C87B07C-B.ADA	P	SC = 32
C87B07D-B.ADA	P	SC = 11
C87B07E-B.ADA	P	SC = 17
C87B08A-B.ADA	P	SC = 24
C87B09A-B.ADA	P	SC = 12
C87B09B-B.ADA	P	SC = 13
C87B09C-B.ADA	P	SC = 17
C87B10A-B.ADA	P	SC = 19
C87B11A-B.ADA	P	SC = 12
C87B11B-B.ADA	P	SC = 13
C87B13A-B.ADA	P	SC = 19
C87B14A-B.ADA	P	SC = 29
C87B14B-B.ADA	P	SC = 30
C87B14C-B.ADA	P	SC = 30
C87B14D-B.ADA	P	SC = 14
C87B15A-B.ADA	P	SC = 32
C87B16A-B.ADA	P	SC = 45
C87B17A-B.ADA	P	SC = 46
C87B18A-B.ADA	P	SC = 24
C87B18B-B.ADA	P	SC = 32
C87B19A-B.ADA	P	SC = 42
C87B23A-B.ADA	P	SC = 41
C87B24A-B.ADA	P	SC = 29
C87B24B-B.ADA	P	SC = 35
C87B27A-B.ADA	P	SC = 27
C87B28A-B.ADA	W	
C87B29A-B.ADA	P	SC = 18
C87B30A-B.ADA	P	SC = 32
C87B31A-B.ADA	W	
C87B32A-B.ADA	W	
C87B33A-B.ADA	P	SC = 60
C87B34A-B.ADA	P	SC = 18
C87B34B-B.ADA	P	SC = 28
C87B34C-B.ADA	P	SC = 26
C87B35A-B.ADA	P	SC = 24
C87B35B-B.ADA	P	SC = 29
C87B35C-B.ADA	P	SC = 23
C87B37A-B.ADA	P	SC = 18
C87B38A-B.ADA	P	SC = 28

C87B39A-B.ADA	W		
C87B40A-B.ADA	P	SC = 33	
C87B41A-B.ADA	P	SC = 54	
C87B42A-B.ADA	P	SC = 30	
C87B43A-B.ADA	P	SC = 15	
C87B44A-B.ADA	P	SC = 33	
C87B45A-B.ADA	P	SC = 44	
C87B45C-B.ADA	P	SC = 60	
C87B47A-B.ADA	P	SC = 25	
C87B48A-B.ADA	P	SC = 31	
C87B48B-B.ADA	P	SC = 32	
B87B48C-B.ADA	P	SC = 57	EC = 10
C87B54A-B.ADA	P	SC = 29	
C87B57A-B.ADA	P	SC = 47	
C87B62A-B.DEP	P	SC = 36	
C87B62B-B.DEP	P	SC = 42	
C87B62C-B.DEP	P	SC = 36	
B91001A-AB.ADA	P	SC = 6	EC = 1
B91001B-AB.ADA	P	SC = 5	EC = 1
B91001C-AB.ADA	P	SC = 3	EC = 1
B91001D-AB.ADA	P	SC = 2	EC = 1
B91001E-AB.ADA	P	SC = 2	EC = 1
B91001F-AB.ADA	P	SC = 10	EC = 4
B91001G-B.ADA	P	SC = 7	EC = 1
B91002A-B.ADA	P	SC = 7	EC = 1
B91002B-B.ADA	P	SC = 7	EC = 1
B91002C-B.ADA	P	SC = 7	EC = 1
B91002D-B.ADA	P	SC = 7	EC = 1
B91002E-B.ADA	P	SC = 7	EC = 1
B91002F-B.ADA	P	SC = 8	EC = 1
B91002G-B.ADA	P	SC = 7	EC = 1
B91002H-B.ADA	P	SC = 7	EC = 1
B91002I-B.ADA	P	SC = 8	EC = 1
B91002J-B.ADA	P	SC = 7	EC = 1
B91002K-B.ADA	P	SC = 7	EC = 1
B91002L-B.ADA	P	SC = 7	EC = 1
A91002M-B.ADA	P	SC = 16	
B91003A-AB.ADA	P	SC = 34	EC = 6
C92002A.ADA	P	SC = 19	
C92003A.ADA	P	SC = 18	
C93001A-B.ADA	P	SC = 75	
C93002A-B.ADA	P	SC = 76	
C93003A-B.ADA	P	SC = 105	
C94001A-B.ADA	P	SC = 52	
C94002A-B.ADA	P	SC = 74	
C94002B-B.ADA	P	SC = 79	
C94003A-B.ADA	P	SC = 65	
C94004A-B.ADA	P	SC = 36	
C94005A-B.ADA	P	SC = 29	

C94005B-B.ADA	P	SC = 57	
C94006A-B.ADA	P	SC = 82	
C94007A-B.ADA	P	SC = 73	
C94007B-B.ADA	P	SC = 83	
B95001A.ADA	P	SC = 49	EC = 18
B95001B-AB.ADA	P	SC = 28	EC = 12
B95002A.ADA	P	SC = 25	EC = 6
B95004A-AB.ADA	P	SC = 27	EC = 6
B95004B-AB.ADA	P	SC = 37	EC = 8
A95005A.ADA	P	SC = 21	
B95006A.ADA	P	SC = 22	EC = 6
B95006B-AB.ADA	P	SC = 8	EC = 1
B95006C-AB.ADA	P	SC = 8	EC = 1
B95006D-AB.ADA	P	SC = 8	EC = 1
B95007A-AB.ADA	P	SC = 28	EC = 9
B95007B-AB.ADA	P	SC = 22	EC = 6
C95008A.ADA	P	SC = 145	
C95009A.ADA	P	SC = 50	
C95009B.ADA	P	SC = 19	
C95010A.ADA	P	SC = 29	
C95011A.ADA	P	SC = 16	
C95012A-B.ADA	P	SC = 38	
C95013A-B.ADA	P	SC = 30	
B97101A-AB.ADA	P	SC = 21	EC = 7
B97101B-AB.ADA	P	SC = 10	EC = 1
B97101C-AB.ADA	P	SC = 11	EC = 1
B97101D-AB.ADA	P	SC = 11	EC = 1
B97101E-AB.ADA	P	SC = 13	EC = 4
B97102A-AB.ADA	P	SC = 28	EC = 9
B97102B-AB.ADA	P	SC = 10	EC = 1
B97102C-AB.ADA	P	SC = 11	EC = 1
B97102D-AB.ADA	P	SC = 11	EC = 1
B97102E-AB.ADA	P	SC = 11	EC = 1
B97102F-AB.ADA	P	SC = 10	EC = 1
B97102G-AB.ADA	P	SC = 10	EC = 1
B97102H-AB.ADA	P	SC = 12	EC = 1
B97102I-AB.ADA	P	SC = 9	EC = 1
B97103A-AB.ADA	P	SC = 18	EC = 1
B97103B-AB.ADA	P	SC = 14	EC = 1
B97103D-AB.ADA	P	SC = 16	EC = 1
B97103E-AB.ADA	P	SC = 13	EC = 3
B97104A-AB.ADA	P	SC = 3	EC = 1
B97104B-AB.ADA	P	SC = 7	EC = 1
B97104C-AB.ADA	P	SC = 11	EC = 1
B97104D-AB.ADA	P	SC = 12	EC = 1
B97104E-AB.ADA	P	SC = 13	EC = 1
B97104F-AB.ADA	P	SC = 15	EC = 1
B97104G-AB.ADA	P	SC = 9	EC = 1
A97106A-AB.ADA	P	SC = 19	

B97107A-AB.ADA	P	SC = 15	EC = 2
B97108A-AB.ADA	P	SC = 12	EC = 1
B97108B-AB.ADA	P	SC = 12	EC = 1
B97109A-AB.ADA	P	SC = 12	EC = 1
B97110A-AB.ADA	P	SC = 17	EC = 1
B97110B-AB.ADA	P	SC = 17	EC = 1
B97111A-AB.ADA	P	SC = 18	EC = 1
C97113A-B.ADA	P	SC = 43	
C97114A-B.ADA	P	SC = 68	
C97115A-B.ADA	P	SC = 65	
C97201A-AB.ADA	P	SC = 38	
C97201D-AB.ADA	P	SC = 20	
C97201E-AB.ADA	P	SC = 21	
C97201G-AB.ADA	P	SC = 35	
C97201H-AB.ADA	P	SC = 35	
C97201X-AB.ADA	P	SC = 36	
C97202A-AB.ADA	P	SC = 30	
C97203A-AB.ADA	P	SC = 25	
C97203B-AB.ADA	P	SC = 28	
C97204A-B.ADA	P	SC = 29	
C97303A-AB.ADA	P	SC = 27	
C97303B-AB.ADA	P	SC = 30	
C97304A-B.ADA	P	SC = 30	
B99001A-AB.ADA	P	SC = 11	EC = 1
B99001B-B.ADA	P	SC = 10	EC = 1
B99002A-B.ADA	P	SC = 15	EC = 2
B99002B-B.ADA	P	SC = 19	EC = 1
B99002C-B.ADA	P	SC = 23	EC = 4
B99003A-AB.ADA	P	SC = 15	EC = 2
B9A001A-AB.ADA	P	SC = 9	EC = 1
B9A001B-AB.ADA	P	SC = 12	EC = 1
C9A003A-B.ADA	P	SC = 23	
C9A004A-B.ADA	P	SC = 23	
C9A005A-B.ADA	W		
C9A006A-B.ADA	P	SC = 51	
C9A007A-B.ADA	W		
CA1002A0-B.ADA	PC	SC = 2	
CA1002A1-B.ADA	PC	SC = 5	
CA1002A2-B.ADA	PC	SC = 4	
CA1002A3M-B.ADA	P	SC = 45	
CA1002A4-B.ADA	PC	SC = 3	
CA1002A5-B.ADA	PC	SC = 2	
CA1002A6-B.ADA	PC	SC = 3	
CA1002A7-B.ADA	PC	SC = 3	
CA1002A8-B.ADA	PC	SC = 4	
CA1002A9-B.ADA	PC	SC = 3	
CA1003A-AB.ADA	P	SC = 20	
CA1003B-AB.ADA	P	SC = 17	
CA1004A.ADA	P	SC = 19	

CA1005A.ADA	P	SC =	17	
CA1006A-AB.ADA	P	SC =	33	
CA1008A0.ADA	PC	SC =	3	
CA1008A1M.ADA	P	SC =	9	
CA1009A0.ADA	PC	SC =	1	
CA1009A1.ADA	PC	SC =	2	
CA1009A2.ADA	PC	SC =	1	
CA1009A3.ADA	PC	SC =	2	
CA1009A4M.ADA	P	SC =	11	
CA1012A0-B.DEP	PC	SC =	2	
CA1012A1-B.DEP	PC	SC =	2	
CA1012A2-B.DEP	PC	SC =	2	
CA1012A3-B.DEP	PC	SC =	2	
CA1012A4M-B.DEP	P	SC =	15	
CA1012B0-B.ADA	PC	SC =	4	
CA1012B2-B.ADA	PC	SC =	4	
CA1012B4M-B.ADA	P	SC =	15	
CA1013A0-AB.ADA	PC	SC =	5	
CA1013A1-AB.ADA	PC	SC =	4	
CA1013A2-AB.ADA	PC	SC =	4	
CA1013A3-B.ADA	PC	SC =	3	
CA1013A4-B.ADA	PC	SC =	3	
CA1013A5-B.ADA	PC	SC =	3	
CA1013A6M-AB.ADA	P	SC =	14	
CA1014A0M-AB.ADA	P	SC =	25	
CA1014A1-AB.ADA	PC	SC =	2	
CA1014A2-AB.ADA	PC	SC =	4	
CA1014A3-AB.ADA	PC	SC =	2	
CA1016A0.ADA	PC	SC =	2	
CA1016A1.ADA	PC	SC =	4	
CA1016A2M.ADA	P	SC =	12	
CA1020A0-B.ADA	PC	SC =	7	
CA1020A1-B.ADA	PC	SC =	5	
CA1020A2-B.ADA	PC	SC =	7	
CA1020A3-B.ADA	PC	SC =	5	
CA1020A4-B.ADA	PC	SC =	8	
CA1020A5-B.ADA	PC	SC =	4	
CA1020A6-B.ADA	PC	SC =	8	
CA1020A7-B.ADA	PC	SC =	4	
CA1020A8M-B.ADA	P	SC =	17	
BA1020B0-B.ADA	PC	SC =	4	EC = 0
BA1020B1-B.ADA	PC	SC =	2	EC = 0
BA1020B2-B.ADA	PC	SC =	3	EC = 0
BA1020B3-B.ADA	PC	SC =	4	EC = 0
BA1020B4-B.ADA	PC	SC =	2	EC = 0
BA1020B5-B.ADA	PC	SC =	2	EC = 0
BA1020B6M-B.ADA	P	SC =	7	EC = 2
BA1101A-AB.ADA	P	SC =	6	EC = 2
BA1101B0M.ADA	P	SC =	6	EC = 0

BA1101B1.ADA	PC	SC = 2	EC = 0
BA1101B2.ADA	PC	SC = 3	EC = 1
BA1101B3.ADA	PC	SC = 3	EC = 0
BA1101B4.ADA	PC	SC = 4	EC = 1
BA1101C0.ADA	PC	SC = 2	EC = 0
BA1101C1M.ADA	P	SC = 3	EC = 1
BA1101D.ADA	P	SC = 3	EC = 1
BA1101E.ADA	P	SC = 4	EC = 1
BA1101H0-B.ADA	PC	SC = 2	EC = 0
BA1101H1M-B.ADA	P	SC = 4	EC = 1
CA1105A0.ADA	PC	SC = 2	
CA1105A1M.ADA	P	SC = 8	
CA1105B0.ADA	PC	SC = 2	
CA1105B1.ADA	PC	SC = 2	
CA1105B2.ADA	PC	SC = 2	
CA1105B3M.ADA	P	SC = 14	
CA1105B4.ADA	PC	SC = 4	
CA1105B5.ADA	PC	SC = 13	
CA1107A0.ADA	PC	SC = 2	
CA1107A1M.ADA	P	SC = 9	
CA1107A2.ADA	PC	SC = 7	
BA2001A-AB.ADA	P	SC = 10	EC = 3
BA2001B.ADA	P	SC = 4	EC = 2
BA2001C.ADA	P	SC = 6	EC = 2
BA2001D.ADA	P	SC = 3	EC = 1
BA2001E.ADA	P	SC = 8	EC = 2
BA2001F0M.ADA	P	SC = 3	EC = 0
BA2001F1.ADA	PC	SC = 3	EC = 0
BA2001F2.ADA	PC	SC = 2	EC = 1
BA2001G0M.ADA	P	SC = 3	EC = 0
BA2001G1.ADA	PC	SC = 2	EC = 1
CA2001H0-B.ADA	PC	SC = 5	
CA2001H1-B.ADA	PC	SC = 2	
CA2001H2-B.ADA	PC	SC = 4	
CA2001H3M-B.ADA	P	SC = 13	
BA2002A0M.ADA	P	SC = 4	EC = 0
BA2002A1.ADA	PC	SC = 7	EC = 0
BA2002A2.ADA	PC	SC = 7	EC = 3
CA2003A0M.ADA	P	SC = 10	
CA2003A1.ADA	PC	SC = 3	
BA2003B0M.ADA	P	SC = 6	EC = 0
BA2003B1.ADA	PC	SC = 2	EC = 1
CA2004A0M.ADA	P	SC = 11	
CA2004A1.ADA	PC	SC = 3	
CA2004A2.ADA	PC	SC = 7	
CA2007A0M-AB.ADA	P	SC = 17	
CA2007A1-AB.ADA	PC	SC = 3	
CA2007A2-AB.ADA	PC	SC = 3	
CA2007A3-AB.ADA	PC	SC = 3	



CA2008AOM-B.ADA P	SC = 23		
CA2008A1-B.ADA PC	SC = 2		
CA2008A2-B.ADA PC	SC = 2		
BA3001AOM-AB.ADA	P	SC = 2	EC = 0
BA3001A1-AB.ADA PC	SC = 2	EC = 1	
BA3001A2-AB.ADA PC	SC = 2	EC = 1	
BA3001A3-AB.ADA PC	SC = 2	EC = 1	
BA3001BOM.ADA P	SC = 2	EC = 0	
BA3001B1.ADA PC	SC = 2	EC = 1	
BA3001COM-AB.ADA	P	SC = 3	EC = 0
BA3001C1-AB.ADA PC	SC = 3	EC = 1	
BA3001DOM.ADA P	SC = 4	EC = 1	
BA3001D1.ADA PC	SC = 3	EC = 1	
BA3001EOM-AB.ADA	P	SC = 5	EC = 0
BA3001E1-AB.ADA PC	SC = 2	EC = 1	
BA3001E2-AB.ADA PC	SC = 2	EC = 1	
BA3001E3-AB.ADA PC	SC = 2	EC = 1	
BA3001FOM-AB.ADA	P	SC = 6	EC = 0
BA3001F1-AB.ADA PC	SC = 3	EC = 1	
BA3001F2-AB.ADA PC	SC = 3	EC = 1	
BA3001F3-AB.ADA PC	SC = 3	EC = 1	
CA3002A0-B.ADA PC	SC = 5		
CA3002A1-B.ADA PC	SC = 3		
CA3002A2M-B.ADA P	SC = 9		
CA3002A3-B.ADA PC	SC = 3		
LA3004A0-AB.DEP W			
LA3004A1-AB.DEP W			
LA3004A2-AB.DEP W			
LA3004A3-AB.DEP W			
LA3004A4-AB.DEP W			
LA3004A5-AB.DEP W			
LA3004A6M-AB.DEP	W		
LA3004B0-B.DEP W			
LA3004B1-B.DEP W			
LA3004B2-B.DEP W			
LA3004B3-B.DEP W			
LA3004B4-B.DEP W			
LA3004B5-B.DEP W			
LA3004B6M-B.DEP W			
LA3006A0-AB.ADA PC	SC = 2	EC = 0	
LA3006A1-AB.ADA PC	SC = 4	EC = 0	
LA3006A2-AB.ADA PC	SC = 3	EC = 0	
LA3006A3-AB.ADA PC	SC = 3	EC = 0	
LA3006A4-AB.ADA PC	SC = 5	EC = 0	
LA3006A5-AB.ADA PC	SC = 2	EC = 0	
LA3006A6M-AB.ADA	P	SC = 7	EC = 0
LA3006B0.ADA PC	SC = 4	EC = 0	
LA3006B1.ADA PC	SC = 3	EC = 0	
LA3006B2.ADA PC	SC = 3	EC = 0	

LA3006B3.ADA	PC	SC = 3	EC = 0
LA3006B4M.ADA	P	SC = 6	EC = 0
CA3006C0-B.ADA	W		
CA3006C1-B.ADA	W		
CA3006C2-B.ADA	W		
CA3006C3-B.ADA	W		
CA3006C4-B.ADA	W		
CA3006C5M-B.ADA	W		
LA3007A0.ADA	PC	SC = 2	EC = 0
LA3007A1.ADA	PC	SC = 4	EC = 0
LA3007A2.ADA	PC	SC = 2	EC = 0
LA3007A3.ADA	PC	SC = 4	EC = 0
LA3007A4M.ADA	P	SC = 6	EC = 0
LA3007B0-B.ADA	PC	SC = 1	EC = 0
LA3007B1-B.ADA	PC	SC = 5	EC = 0
LA3007B2-B.ADA	PC	SC = 4	EC = 0
LA3007B3-B.ADA	PC	SC = 5	EC = 0
LA3007B4-B.ADA	PC	SC = 3	EC = 0
LA3007B5-B.ADA	PC	SC = 2	EC = 0
LA3007B6-B.ADA	PC	SC = 1	EC = 0
LA3007B7-B.ADA	PC	SC = 4	EC = 0
LA3007B8M-B.ADA	P	SC = 7	EC = 0
LA3008A0.ADA	PC	SC = 4	EC = 0
LA3008A1.ADA	PC	SC = 2	EC = 0
LA3008A2.ADA	PC	SC = 2	EC = 0
LA3008A3.ADA	PC	SC = 5	EC = 0
LA3008A4.ADA	PC	SC = 2	EC = 0
LA3008A5M.ADA	P	SC = 6	EC = 0
LA3008B0.ADA	PC	SC = 4	EC = 0
LA3008B1.ADA	PC	SC = 5	EC = 0
LA3008B2.ADA	PC	SC = 3	EC = 0
LA3008B3.ADA	PC	SC = 3	EC = 0
LA3008B4.ADA	PC	SC = 6	EC = 0
LA3008B5.ADA	PC	SC = 3	EC = 0
LA3008B6M.ADA	P	SC = 6	EC = 0
LA5001A0-B.ADA	W		
LA5001A1-B.ADA	W		
LA5001A2-B.ADA	W		
LA5001A3-B.ADA	W		
LA5001A4-B.ADA	W		
LA5001A5-B.ADA	W		
LA5001A6M-B.ADA	W		
CA5002A-B.ADA	W		
CA5002B0-B.ADA	W		
CA5002B1-B.ADA	W		
CA5002B2-B.ADA	W		
CA5002B3-B.ADA	W		
CA5002B4-B.ADA	W		
CA5002B5-B.ADA	W		

CA5002B6-B.ADA	W		
CA5002B7M-B.ADA	W		
CA5003A0-B.ADA	PC	SC =	11
CA5003A1-B.ADA	PC	SC =	5
CA5003A2-B.ADA	PC	SC =	5
CA5003A3-B.ADA	PC	SC =	5
CA5003A4-B.ADA	PC	SC =	5
CA5003A5-B.ADA	PC	SC =	5
CA5003A6M-B.ADA	P	SC =	9
VAR_STRINGS_SPEC.ADA	P	SC =	123
VAR_STRINGS_BODY.ADA	P	SC =	396
CB1001A-B.ADA	P	SC =	33
CB1002A.ADA	P	SC =	10
CB1003A-AB.ADA	P	SC =	25
CB1004A-AB.ADA	P	SC =	26
BB2001A-AB.ADA	P	SC =	9
BB2002A-AB.ADA	P	SC =	17
BB2003A-AB.ADA	P	SC =	7
BB2003B-AB.ADA	P	SC =	8
BB2003C-AB.ADA	P	SC =	5
CB2004A-B.ADA	P	SC =	71
CB2005A-B.ADA	P	SC =	26
CB2006A-AB.ADA	P	SC =	21
CB2007A-AB.ADA	P	SC =	40
BB3001A-B.ADA	P	SC =	37
BB3002A-AB.ADA	P	SC =	12
CB3003A-B.ADA	P	SC =	64
CB3004A-AB.ADA	P	SC =	52
BB3005A-AB.ADA	P	SC =	4
CB4001A-AB.ADA	P	SC =	59
CB4002A-AB.ADA	P	SC =	50
CB4003A-AB.ADA	P	SC =	35
CB4004A-B.ADA	P	SC =	26
CB4005A-AB.ADA	P	SC =	19
CB4006A-B.ADA	P	SC =	26
CB4008A-AB.ADA	P	SC =	66
CB4009A-AB.ADA	P	SC =	51
BC1001A-B.ADA	P	SC =	36
BC1002A-B.ADA	P	SC =	46
CC1004A-AB.ADA	P	SC =	29
BC1008A-AB.ADA	P	SC =	5
BC1008B-AB.ADA	P	SC =	4
BC1008C-AB.ADA	P	SC =	3
BC1009A-AB.ADA	P	SC =	33
CC1010A-AB.ADA	P	SC =	18
CC1010B-AB.ADA	P	SC =	19
BC1011A-AB.ADA	P	SC =	9
BC1011B-AB.ADA	P	SC =	29
BC1012A-AB.ADA	P	SC =	10

	EC =	3
	EC =	6
	EC =	1
	EC =	1
	EC =	1
	EC =	9
	EC =	3
	EC =	2
	EC =	9
	EC =	13
	EC =	1
	EC =	1
	EC =	1
	EC =	11
	EC =	1
	EC =	4
	EC =	2

BC1013A-B.ADA	P	SC = 47	EC = 12
BC1101A-AB.ADA	P	SC = 7	EC = 1
BC1102A-B.ADA	P	SC = 26	EC = 8
BC1103A-B.ADA	P	SC = 72	EC = 29
BC1104A-B.ADA	P	SC = 16	EC = 3
BC1104B-B.ADA	P	SC = 15	EC = 4
BC1106A-AB.ADA	P	SC = 8	EC = 1
BC1107A-B.ADA	P	SC = 29	EC = 10
BC1201A-AB.ADA	P	SC = 8	EC = 4
BC1201B-AB.ADA	P	SC = 5	EC = 1
BC1201C-AB.ADA	P	SC = 5	EC = 1
BC1201D-AB.ADA	P	SC = 5	EC = 1
BC1202A-AB.ADA	P	SC = 5	EC = 1
BC1202B-AB.ADA	P	SC = 7	EC = 1
BC1202C-AB.ADA	P	SC = 5	EC = 1
BC1202D-AB.ADA	P	SC = 7	EC = 1
BC1203A-AB.ADA	P	SC = 11	EC = 2
BC1207A-B.ADA	P	SC = 18	EC = 10
CC1220A-B.ADA	P	SC = 20	
BC1226A-B.ADA	P	SC = 94	EC = 29
CC1301A-B.ADA	P	SC = 58	
CC1302A-AB.ADA	P	SC = 60	
BC1303A-AB.ADA	P	SC = 5	EC = 1
BC1303B-AB.ADA	P	SC = 7	EC = 1
BC1303C-AB.ADA	P	SC = 7	EC = 1
BC1303D-AB.ADA	P	SC = 5	EC = 1
BC1303E-AB.ADA	P	SC = 5	EC = 1
CC1304A-AB.ADA	P	SC = 46	
CC1305B-AB.ADA	P	SC = 63	
BC1306A-B.ADA	P	SC = 26	EC = 2
CC1307A-AB.ADA	P	SC = 13	
CC1308A-AB.ADA	P	SC = 37	
CC1310A-AB.ADA	P	SC = 33	
BC2001A-AB.ADA	P	SC = 10	EC = 2
BC2001B-AB.ADA	P	SC = 5	EC = 1
BC2001C-AB.ADA	P	SC = 6	EC = 1
CC2002A-AB.ADA	P	SC = 22	
BC3002A-AB.ADA	P	SC = 13	EC = 3
BC3002B-AB.ADA	P	SC = 9	EC = 3
BC3002C-AB.ADA	P	SC = 8	EC = 2
BC3002D-AB.ADA	P	SC = 9	EC = 3
BC3002E-AB.ADA	P	SC = 10	EC = 3
BC3003A-AB.ADA	P	SC = 15	EC = 3
BC3003B-AB.ADA	P	SC = 17	EC = 3
CC3004A-B.ADA	P	SC = 28	
BC3005A-AB.ADA	P	SC = 21	EC = 6
BC3006A-AB.ADA	P	SC = 17	EC = 4
CC3007A-AB.ADA	P	SC = 53	
CC3011A-B.ADA	P	SC = 60	

BC3011B-B.ADA	P	SC = 21	EC = 2
BC3011C-AB.ADA	P	SC = 11	EC = 3
CC3011D-B.ADA	P	SC = 30	
CC3012A-AB.ADA	P	SC = 119	
BC3013A-AB.ADA	P	SC = 18	EC = 3
BC3101A-B.ADA	P	SC = 131	EC = 36
BC3101B-B.ADA	P	SC = 142	EC = 74
BC3102A-B.ADA	P	SC = 104	EC = 33
BC3102B-B.ADA	P	SC = 104	EC = 33
BC3103A-AB.ADA	P	SC = 60	EC = 12
BC3103B-AB.ADA	P	SC = 12	EC = 1
CC3120A-AB.ADA	P	SC = 85	
CC3120B-B.ADA	P	SC = 66	
CC3125A-B.ADA	P	SC = 32	
BC3201A-B.ADA	P	SC = 21	EC = 5
BC3201B-AB.ADA	P	SC = 21	EC = 5
BC3201C-B.ADA	P	SC = 24	EC = 6
BC3202A-B.ADA	P	SC = 55	EC = 16
BC3202B-B.ADA	P	SC = 52	EC = 16
BC3202C-B.ADA	P	SC = 49	EC = 14
CC3203A-B.ADA	P	SC = 32	
BC3203B-B.ADA	P	SC = 66	EC = 8
BC3204A-B.ADA	P	SC = 45	EC = 12
BC3204B-B.ADA	P	SC = 46	EC = 12
BC3204C0-B.ADA	PC	SC = 5	EC = 0
BC3204C1M-B.ADA	P	SC = 24	EC = 0
BC3204C2-B.ADA	PC	SC = 16	EC = 1
BC3204D-B.ADA	P	SC = 45	EC = 12
BC3204E-B.ADA	P	SC = 42	EC = 8
BC3205A-B.ADA	P	SC = 70	EC = 24
BC3205B-B.ADA	P	SC = 71	EC = 24
BC3205C-B.ADA	P	SC = 71	EC = 24
BC3205D0-B.ADA	PC	SC = 9	EC = 0
BC3205D1M-B.ADA	P	SC = 40	EC = 0
BC3205D2-B.ADA	PC	SC = 13	EC = 1
BC3205E-B.ADA	P	SC = 62	EC = 16
CC3208A-AB.ADA	P	SC = 35	
CC3208B-AB.ADA	P	SC = 37	
BC3301A-AB.ADA	P	SC = 37	EC = 7
BC3301B-AB.ADA	P	SC = 17	EC = 4
BC3302A-AB.ADA	P	SC = 33	EC = 10
BC3302B-AB.ADA	P	SC = 21	EC = 6
BC3303A-AB.ADA	P	SC = 33	EC = 10
BC3304A-AB.ADA	P	SC = 35	EC = 11
CC3305A-AB.ADA	P	SC = 35	
CC3305B-AB.ADA	P	SC = 23	
CC3305C-AB.ADA	P	SC = 23	
CC3305D-AB.ADA	P	SC = 23	
BC3401A-AB.ADA	P	SC = 28	EC = 10

BC3401B-AB.ADA	P	SC = 16	EC = 4
BC3402A-AB.ADA	P	SC = 29	EC = 6
BC3402B-AB.ADA	P	SC = 22	EC = 6
BC3403A-AB.ADA	P	SC = 85	EC = 19
BC3403B-AB.ADA	P	SC = 82	EC = 18
BC3403C-AB.ADA	P	SC = 24	EC = 5
BC3404A-AB.ADA	P	SC = 86	EC = 14
BC3404B-B.ADA	P	SC = 77	EC = 14
BC3404C-AB.ADA	P	SC = 21	EC = 4
BC3404D-AB.ADA	P	SC = 49	EC = 12
BC3404E-AB.ADA	P	SC = 39	EC = 3
BC3404F-AB.ADA	P	SC = 36	EC = 3
BC3405A-AB.ADA	P	SC = 55	EC = 9
BC3405B-B.ADA	P	SC = 40	EC = 12
BC3405D-AB.ADA	P	SC = 61	EC = 8
BC3405E-AB.ADA	P	SC = 64	EC = 8
BC3405F-AB.ADA	P	SC = 42	EC = 4
CC3406A-AB.ADA	P	SC = 21	
CC3406B-AB.ADA	P	SC = 22	
CC3406C-AB.ADA	P	SC = 27	
CC3406D-B.ADA	P	SC = 23	
CC3407A-AB.ADA	P	SC = 35	
CC3407B-AB.ADA	P	SC = 34	
CC3407C-AB.ADA	P	SC = 35	
CC3407D-AB.ADA	P	SC = 55	
CC3407E-AB.ADA	P	SC = 30	
CC3407F-AB.ADA	P	SC = 21	
CC3408A-AB.ADA	P	SC = 21	
CC3408B-AB.ADA	P	SC = 22	
CC3408C-AB.ADA	P	SC = 27	
CC3408D-B.ADA	P	SC = 22	
BC3501A-AB.ADA	P	SC = 23	EC = 4
BC3501B-AB.ADA	P	SC = 18	EC = 4
BC3501C-AB.ADA	P	SC = 32	EC = 5
BC3501D-AB.ADA	P	SC = 27	EC = 5
BC3501E-AB.ADA	P	SC = 30	EC = 4
BC3501F-AB.ADA	P	SC = 30	EC = 3
BC3501G-AB.ADA	P	SC = 73	EC = 9
BC3501H-AB.ADA	P	SC = 62	EC = 9
BC3501I-AB.ADA	P	SC = 17	EC = 3
BC3501J-AB.ADA	P	SC = 13	EC = 2
BC3501K-AB.ADA	P	SC = 15	EC = 2
BC3502A-AB.ADA	P	SC = 25	EC = 4
BC3502B-AB.ADA	P	SC = 49	EC = 13
BC3502C-AB.ADA	P	SC = 72	EC = 16
BC3502D-AB.ADA	P	SC = 117	EC = 25
BC3502E-AB.ADA	P	SC = 103	EC = 17
BC3502F-AB.ADA	P	SC = 36	EC = 7
BC3502G-AB.ADA	P	SC = 44	EC = 13

BC3502H-AB.ADA	P	SC = 62	EC = 13
BC3502I-AB.ADA	P	SC = 83	EC = 19
BC3502J-AB.ADA	P	SC = 85	EC = 16
BC3502K-AB.ADA	P	SC = 12	EC = 2
BC3502L-AB.ADA	P	SC = 19	EC = 5
BC3502M-AB.ADA	P	SC = 15	EC = 3
BC3502N-AB.ADA	P	SC = 26	EC = 3
BC3502O-AB.ADA	P	SC = 28	EC = 3
BC3503A-B.ADA	P	SC = 62	EC = 12
BC3503B-B.ADA	P	SC = 43	EC = 8
BC3503C-B.ADA	P	SC = 21	EC = 4
BC3503D-B.ADA	P	SC = 34	EC = 6
BC3503F-B.ADA	P	SC = 18	EC = 3
CC3504A-B.ADA	P	SC = 43	
CC3504B-B.ADA	P	SC = 48	
CC3504C-B.ADA	P	SC = 57	
CC3504D-B.ADA	P	SC = 33	
CC3504E-B.ADA	P	SC = 40	
CC3504F-B.ADA	P	SC = 45	
CC3504G-B.ADA	P	SC = 54	
CC3504H-B.ADA	P	SC = 35	
CC3504I-B.ADA	P	SC = 29	
CC3504J-B.ADA	P	SC = 30	
CC3504K-B.ADA	P	SC = 30	
CC3601C-AB.ADA	P	SC = 75	
CC3602A-AB.ADA	P	SC = 36	
AE2101A-B.ADA	W		
AE2101B-B.ADA	P	SC = 15	
AE2101C-B.DEP	P	SC = 19	
AE2101D-B.ADA	P	SC = 15	
BE2101E-B.ADA	P	SC = 42	EC = 16
CE2102A-B.DEP	P	SC = 73	
CE2102B-B.DEP	P	SC = 71	
CE2102C-B.DEP	P	SC = 52	
CE2102D-B.DEP	P	SC = 63	
CE2102E-B.DEP	P	SC = 63	
CE2102F-B.DEP	P	SC = 34	
CE2102G-B.DEP	P	SC = 64	
CE2103A-B.TST	P	SC = 92	
CE2103B-B.TST	P	SC = 92	
CE2104A-B.ADA	P	SC = 61	
CE2104B-B.ADA	P	SC = 68	
CE2105A-B.ADA	P	SC = 29	
CE2106A-B.DEP	P	SC = 59	
CE2107A-B.DEP	P	SC = 33	
CE2107B-B.DEP	P	SC = 36	
CE2107C-B.DEP	P	SC = 37	
CE2107D-B.DEP	P	SC = 43	
CE2107E-B.DEP	P	SC = 34	

CE2108A-B.ADA	P	SC = 22	
CE2108B-B.DEP	P	SC = 20	
CE2108C-B.ADA	P	SC = 19	
CE2108D-B.ADA	P	SC = 29	
CE2108E-B.ADA	P	SC = 19	
CE2108F-B.ADA	P	SC = 29	
CE2109A-B.ADA	P	SC = 36	
CE2110A-B.ADA	P	SC = 45	
CE2110B-B.DEP	P	SC = 48	
CE2111A-B.ADA	P	SC = 73	
CE2111B-B.ADA	P	SC = 53	
CE2111C-B.ADA	P	SC = 93	
CE2111D-B.DEP	P	SC = 75	
BE2112A-B.ADA	P	SC = 48	EC = 33
BE2112B-B.ADA	P	SC = 19	EC = 10
BE2112C-B.ADA	P	SC = 26	EC = 13
BE2114A-B.ADA	P	SC = 18	EC = 3
CE2201A-B.DEP	P	SC = 119	
CE2201B-B.ADA	P	SC = 104	
CE2201C-B.DEP	P	SC = 51	
CE2201D-B.DEP	P	SC = 36	
CE2201E-B.DEP	P	SC = 82	
CE2201F-B.DEP	P	SC = 36	
BE2208A-B.ADA	P	SC = 12	EC = 3
CE2210A-B.DEP	P	SC = 26	
CE2401A-B.DEP	P	SC = 103	
CE2401B-B.DEP	P	SC = 104	
CE2401C-B.ADA	W		
CE2401D-B.DEP	P	SC = 89	
CE2401E-B.ADA	P	SC = 85	
CE2401F-B.DEP	P	SC = 47	
CE2402A-B.ADA	P	SC = 65	
CE2404A-B.DEP	P	SC = 34	
CE2405B-B.DEP	P	SC = 21	
CE2406A-B.DEP	P	SC = 34	
CE2407A-B.ADA	P	SC = 32	
CE2408A-B.DEP	P	SC = 30	
CE2409A-B.DEP	P	SC = 26	
CE2410A-B.DEP	P	SC = 27	
BE3001A-B.ADA	P	SC = 10	EC = 4
BE3002A-B.ADA	P	SC = 19	EC = 5
CE3002B-B.TST	P	SC = 25	
CE3002C-B.TST	P	SC = 20	
CE3002D-B.ADA	P	SC = 18	
BE3002E-B.ADA	P	SC = 9	EC = 3
CE3002F-B.ADA	P	SC = 13	
AE3101A-B.ADA	P	SC = 31	
CE3102A-B.ADA	P	SC = 75	
CE3102B-B.TST	P	SC = 50	



EE3102C-B.ADA	P	SC = 35
CE3103A-B.ADA	P	SC = 45
CE3104A-B.ADA	P	SC = 81
BE3105A-B.ADA	P	SC = 5
CE3107A-B.TST	P	SC = 91
CE3108A-B.ADA	P	SC = 36
CE3108B-B.ADA	P	SC = 41
CE3109A-B.ADA	P	SC = 16
CE3110A-B.DEP	P	SC = 31
CE3111A-B.DEP	P	SC = 34
CE3111B-B.DEP	P	SC = 34
CE3111C-B.DEP	P	SC = 41
CE3112A-B.ADA	P	SC = 15
CE3112B-B.ADA	P	SC = 21
CE3114A-B.ADA	P	SC = 24
CE3114B-B.DEP	P	SC = 26
CE3115A-B.DEP	P	SC = 34
CE3201A-B.ADA	P	SC = 18
CE3202A-B.ADA	P	SC = 15
CE3203A-B.ADA	P	SC = 50
BE3205A-B.ADA	P	SC = 11
CE3206A-B.ADA	P	SC = 18
CE3208A-B.ADA	P	SC = 40
CE3301A-B.ADA	P	SC = 35
CE3301B-B.ADA	P	SC = 55
CE3301C-B.ADA	P	SC = 31
CE3302A-B.ADA	P	SC = 37
CE3303A-B.ADA	P	SC = 30
CE3305A-B.ADA	P	SC = 42
CE3402A-B.ADA	P	SC = 26
CE3402B-B.ADA	P	SC = 42
CE3402C-B.ADA	P	SC = 35
CE3402D-B.ADA	P	SC = 25
CE3402E-B.ADA	P	SC = 18
CE3403A-B.ADA	P	SC = 26
CE3403B-B.ADA	P	SC = 54
CE3403C-B.ADA	P	SC = 32
CE3403D-B.ADA	P	SC = 28
CE3403E-B.ADA	P	SC = 43
CE3403F-B.ADA	P	SC = 46
CE3404A-B.ADA	P	SC = 31
CE3404B-B.ADA	P	SC = 36
CE3404C-B.ADA	P	SC = 70
CE3405A-B.ADA	P	SC = 38
CE3405B-B.ADA	P	SC = 27
CE3405C-B.ADA	P	SC = 30
CE3405D-B.ADA	P	SC = 32
CE3406A-B.ADA	P	SC = 42
CE3406B-B.ADA	P	SC = 30

EC = 1

EC = 8

CE3406C-B.ADA	P	SC = 44	
CE3406D-B.ADA	P	SC = 28	
CE3407A-B.ADA	P	SC = 51	
CE3407B-B.ADA	P	SC = 26	
CE3407C-B.ADA	P	SC = 31	
CE3408A-B.ADA	P	SC = 49	
CE3408B-B.ADA	P	SC = 41	
CE3408C-B.ADA	P	SC = 31	
CE3409A-B.ADA	P	SC = 23	
CE3409B-B.ADA	P	SC = 32	
CE3409C-B.ADA	P	SC = 68	
CE3409D-B.ADA	P	SC = 39	
CE3409E-B.ADA	P	SC = 29	
CE3409F-B.ADA	P	SC = 26	
CE3410A-B.ADA	P	SC = 23	
CE3410B-B.ADA	P	SC = 32	
CE3410C-B.ADA	P	SC = 66	
CE3410D-B.ADA	P	SC = 32	
CE3410E-B.ADA	P	SC = 31	
CE3410F-B.ADA	P	SC = 28	
CE3411A-B.ADA	P	SC = 63	
CE3411C-B.ADA	P	SC = 49	
CE3412A-B.ADA	P	SC = 50	
CE3412C-B.ADA	P	SC = 54	
CE3413A-B.ADA	P	SC = 35	
CE3413C-B.ADA	P	SC = 49	
BE3501A-B.ADA	P	SC = 8	EC = 4
CE3601A-B.ADA	P	SC = 45	
CE3602A-B.DEP	P	SC = 55	
CE3602B-B.DEP	P	SC = 54	
CE3602C-B.DEP	P	SC = 56	
CE3602D-B.DEP	P	SC = 48	
CE3603A-B.ADA	P	SC = 102	
CE3604A-B.DEP	P	SC = 116	
CE3605A-B.DEP	P	SC = 24	
CE3605B-B.DEP	P	SC = 46	
CE3605C-B.DEP	P	SC = 55	
CE3605D-B.ADA	P	SC = 60	
CE3605E-B.DEP	P	SC = 34	
CE3606A-B.DEP	P	SC = 30	
CE3606B-B.DEP	P	SC = 20	
BE3606C-B.ADA	P	SC = 6	EC = 1
CE3701A-B.ADA	P	SC = 42	
AE3702A-B.DEP	P	SC = 21	
BE3703A-B.ADA	P	SC = 23	EC = 8
CE3704A-B.DEP	P	SC = 40	
CE3704B-B.DEP	P	SC = 31	
CE3704C-B.ADA	P	SC = 24	
CE3704D-B.DEP	P	SC = 54	

CE3704E-B.ADA	P	SC = 44	
CE3704F-B.ADA	P	SC = 47	
CE3706C-B.ADA	P	SC = 41	
CE3706F-B.ADA	P	SC = 34	
CE3706G-B.ADA	P	SC = 24	
CE3707A-B.DEP	P	SC = 53	
AE3709A-B.ADA	P	SC = 20	
CE3801A-B.DEP	P	SC = 39	
BE3802A-B.ADA	P	SC = 25	EC = 7
BE3803A-B.ADA	P	SC = 27	EC = 12
CE3804A-B.DEP	P	SC = 61	
CE3804B-B.DEP	P	SC = 61	
CE3804C-B.DEP	P	SC = 64	
CE3804D-B.ADA	P	SC = 54	
CE3804E-B.ADA	P	SC = 53	
CE3804F-B.ADA	P	SC = 30	
CE3804G-B.DEP	P	SC = 79	
CE3804I-B.DEP	P	SC = 54	
CE3805A-B.DEP	P	SC = 67	
CE3805B-B.DEP	P	SC = 68	
CE3806A-B.DEP	P	SC = 44	
CE3806C-B.ADA	P	SC = 60	
CE3806D-B.DEP	P	SC = 64	
CE3806E-B.ADA	P	SC = 91	
CE3809A-B.DEP	P	SC = 86	
CE3809B-B.DEP	P	SC = 86	
CE3810A-B.DEP	P	SC = 42	
CE3901A-B.DEP	P	SC = 23	
BE3902A-B.ADA	P	SC = 24	EC = 3
BE3903A-B.ADA	P	SC = 27	EC = 12
CE3905A-B.DEP	P	SC = 38	
CE3905B-B.DEP	P	SC = 31	
CE3905C-B.DEP	P	SC = 71	
CE3906A-B.DEP	P	SC = 34	
CE3906B-B.DEP	P	SC = 31	
CE3906C-B.DEP	P	SC = 37	
CE3906D-B.ADA	P	SC = 24	
CE3906E-B.DEP	P	SC = 31	
CE3906F-B.ADA	P	SC = 41	
CE3907A-B.DEP	P	SC = 25	
CE3908A-B.DEP	P	SC = 29	
REPORT BODY-B.ADA	P	SC = 81	
REPORT SPEC-AB.ADA	P	SC = 11	
CHECK FILE-B.ADA	P	SC = 68	
CZ1101A-AB.ADA	P	SC = 23	
CZ1102A-AB.ADA	P	SC = 15	
CZ1103A-B.ADA	P	SC = 85	
CZ1201A-AB.ADA	P	SC = 77	
CZ1201B-AB.ADA	P	SC = 97	

CZ1201C-AB.ADA P  
CZ1201D-AB.ADA P

SC = 148  
SC = 140